2-3 Day Weather Forecast

Forecast Date: 05/24/2016

Valid Date: 05/25/2016 and beyond

Coastal VA and Land

Penn State Team

SUMMARY

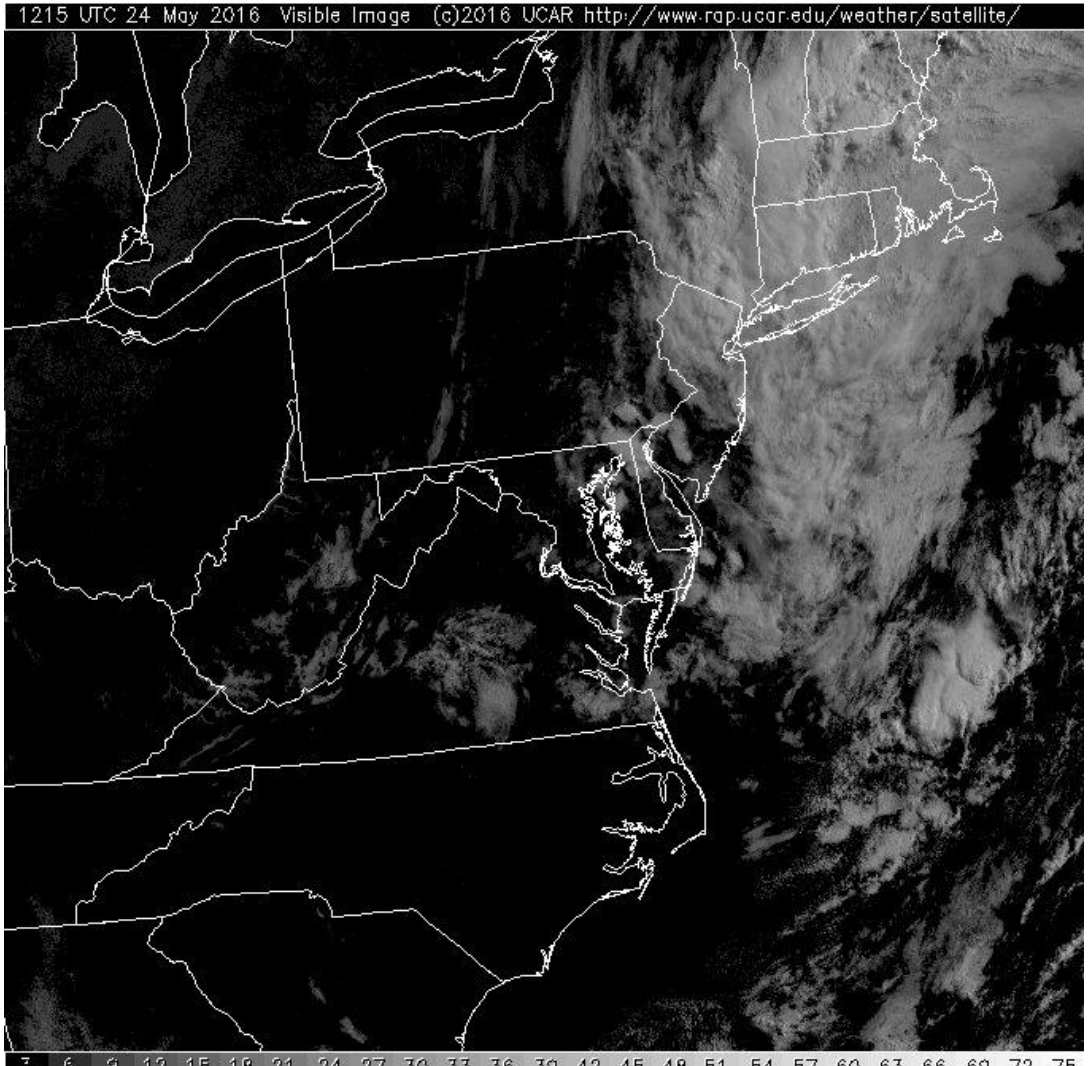
Discussion: Current Conditions, Short-Term Products, Long-Term Synoptic Outlook

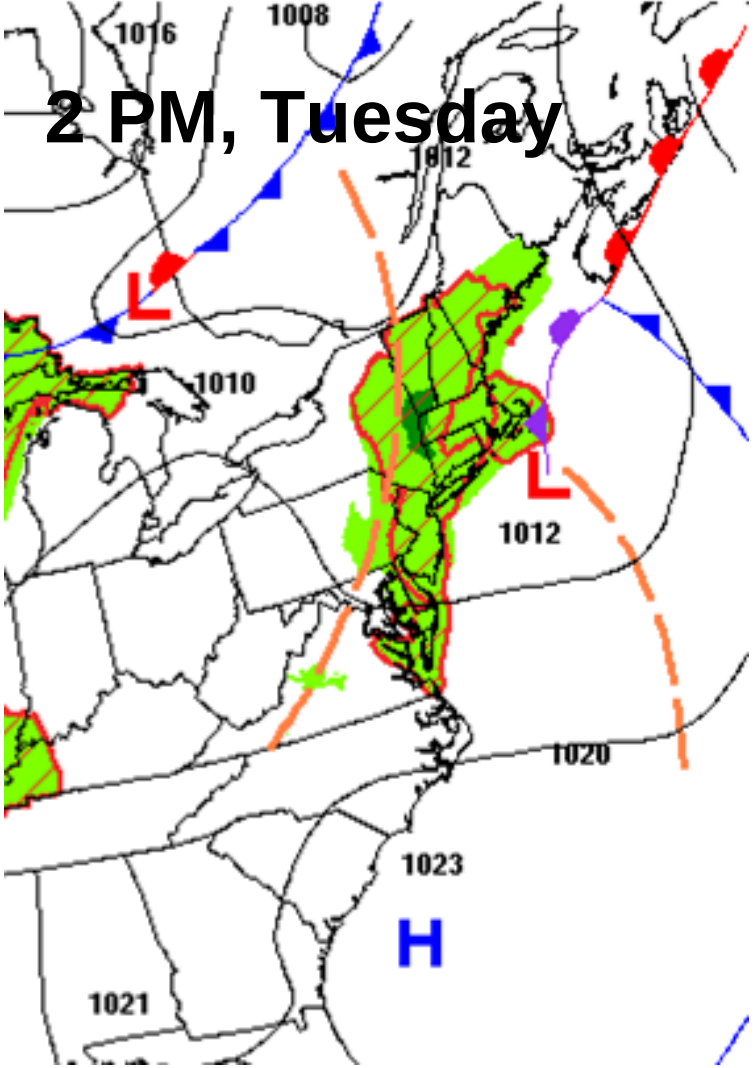
TODAY:

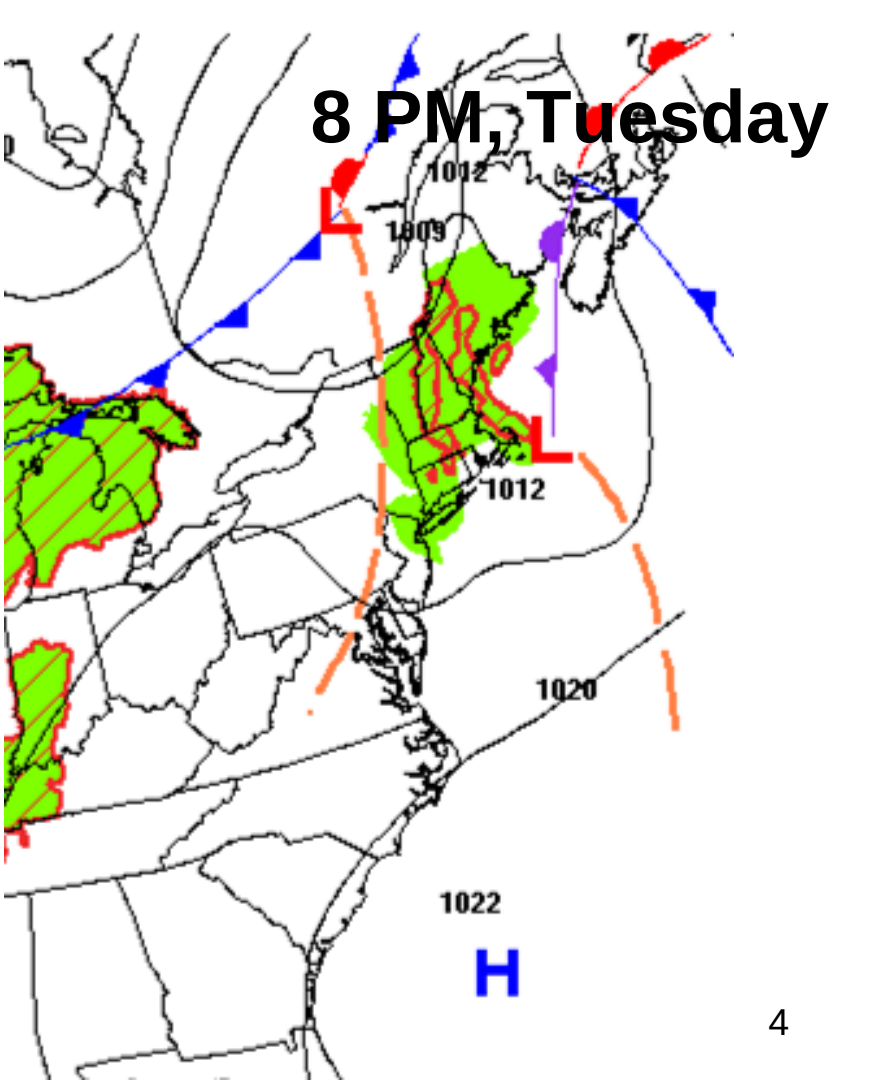
- Ocean: late morning maybe OK; maybe high clouds early aftn, convection late aftn / early eve, winds westerly for all levels
- Land: scattered aftn convection / TS, otherwise fine, winds westerly at low level and northwesterly at higher level

WEDNESDAY:

- Few clouds either ocean or land, except maybe cirrus after 1700 EDT. For ocean winds westerly at low levels and northwesterly at higher level. For land winds southwesterly at low levels and westerly at higher level.

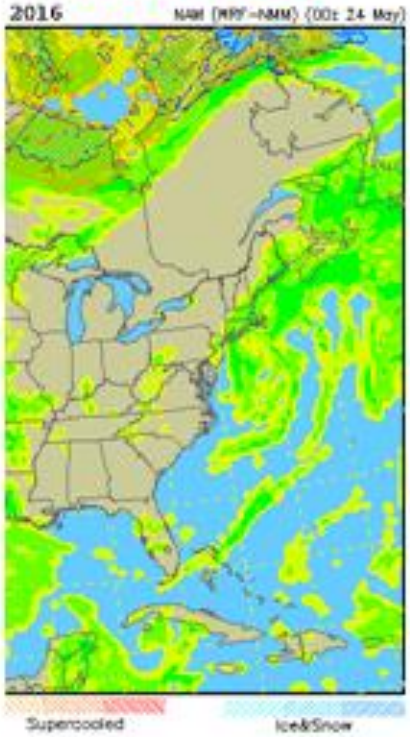

1215 UTC 24 May 2016 Visible Image (c)2016 UCAR http://www.rap.ucar.edu/weather/satellite/


2 PM, Tuesday
1016
1008
1012
L
1010
L
1012
1020
1023
H
1021


8 PM, Tuesday
1012
L
1009
L
1012
1020
1022
H

Integrated condensate, below 6000 ft – 00 UTC 24 May NAM

1200 UTC 24 May



1500 UTC 24 May

1800 UTC 24 May

2100 UTC 24 May

Tuesday May 24

Integrated condensate, 6000 – 12000 ft – 00 UTC 24 May NAM

1200 UTC 24 May

1500 UTC 24 May

1800 UTC 24 May

2100 UTC 24 May

Tuesday May 24

Integrated condensate, 12000 – 18000 ft – 00 UTC 24 May NAM

1200 UTC 24 May

1500 UTC 24 May

1800 UTC 24 May

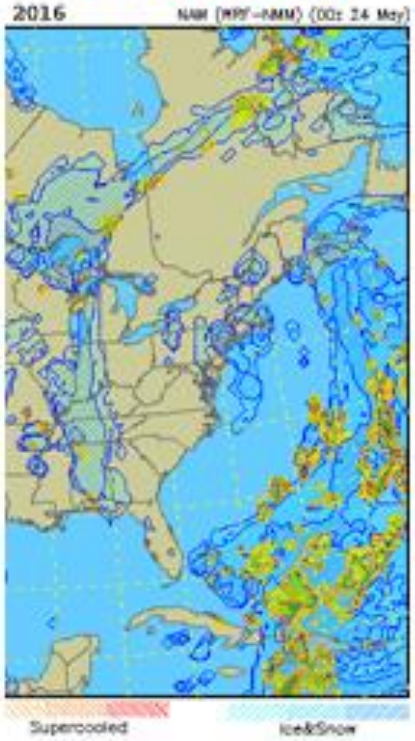
2100 UTC 24 May

Tuesday May 24

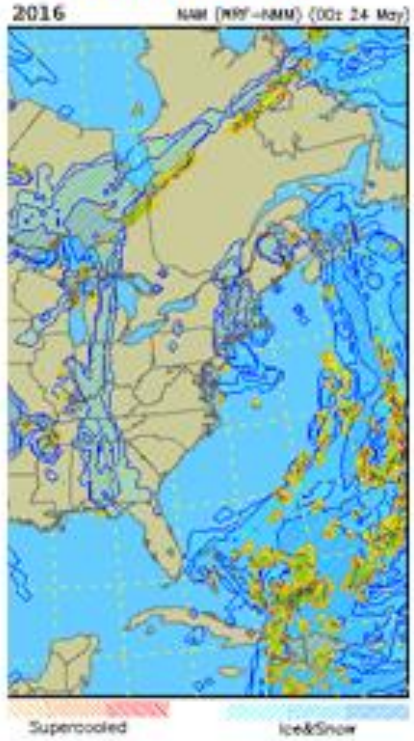
Integrated condensate, above 18000 ft – 00 UTC 24 May NAM

1200 UTC 24 May

1500 UTC 24 May



1800 UTC 24 May



2100 UTC 24 May

Tuesday May 24

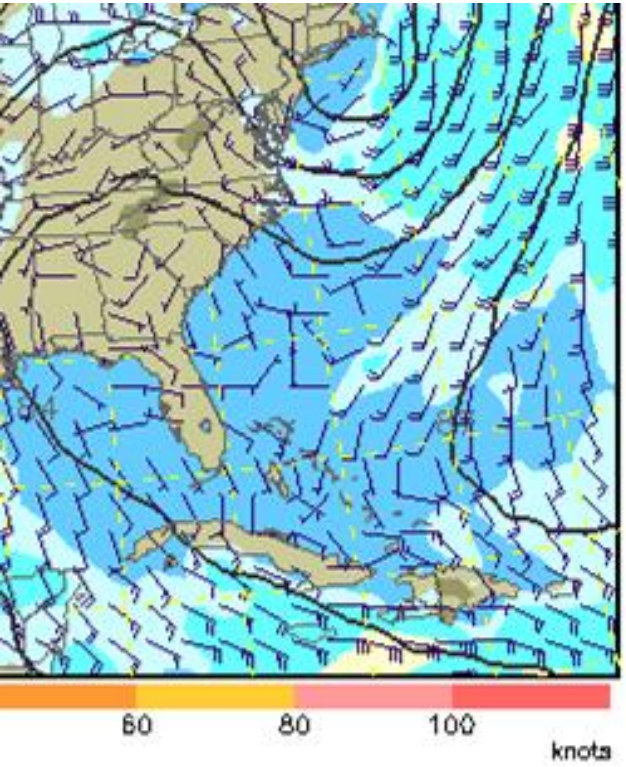
11 AM, Tuesday

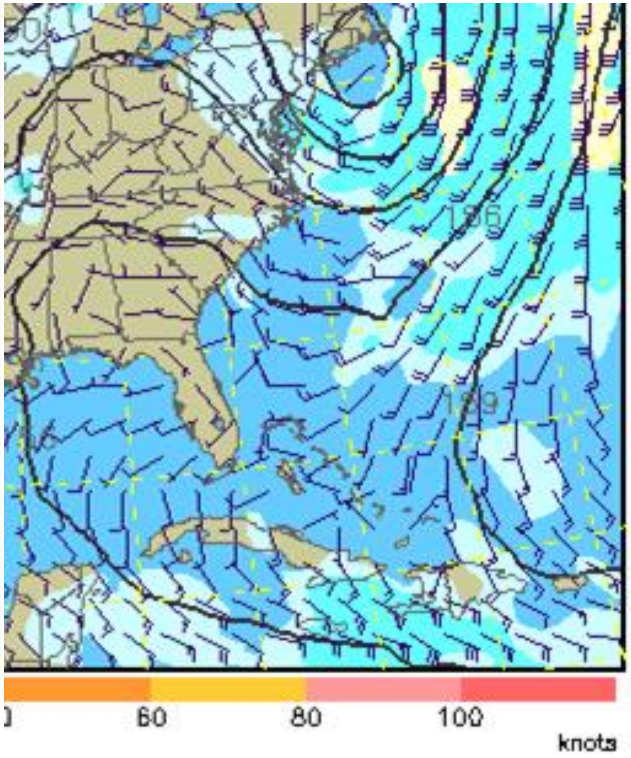
NAM Winds

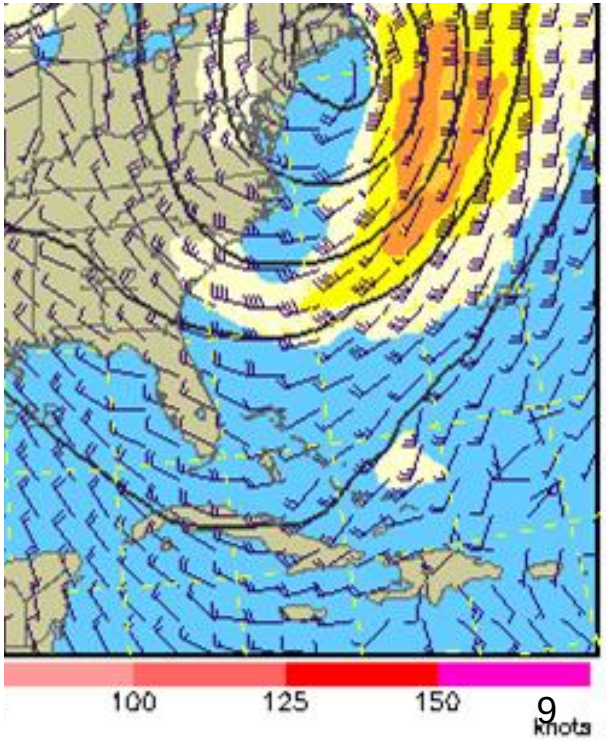
925 hPa

500 hPa

850 hPa





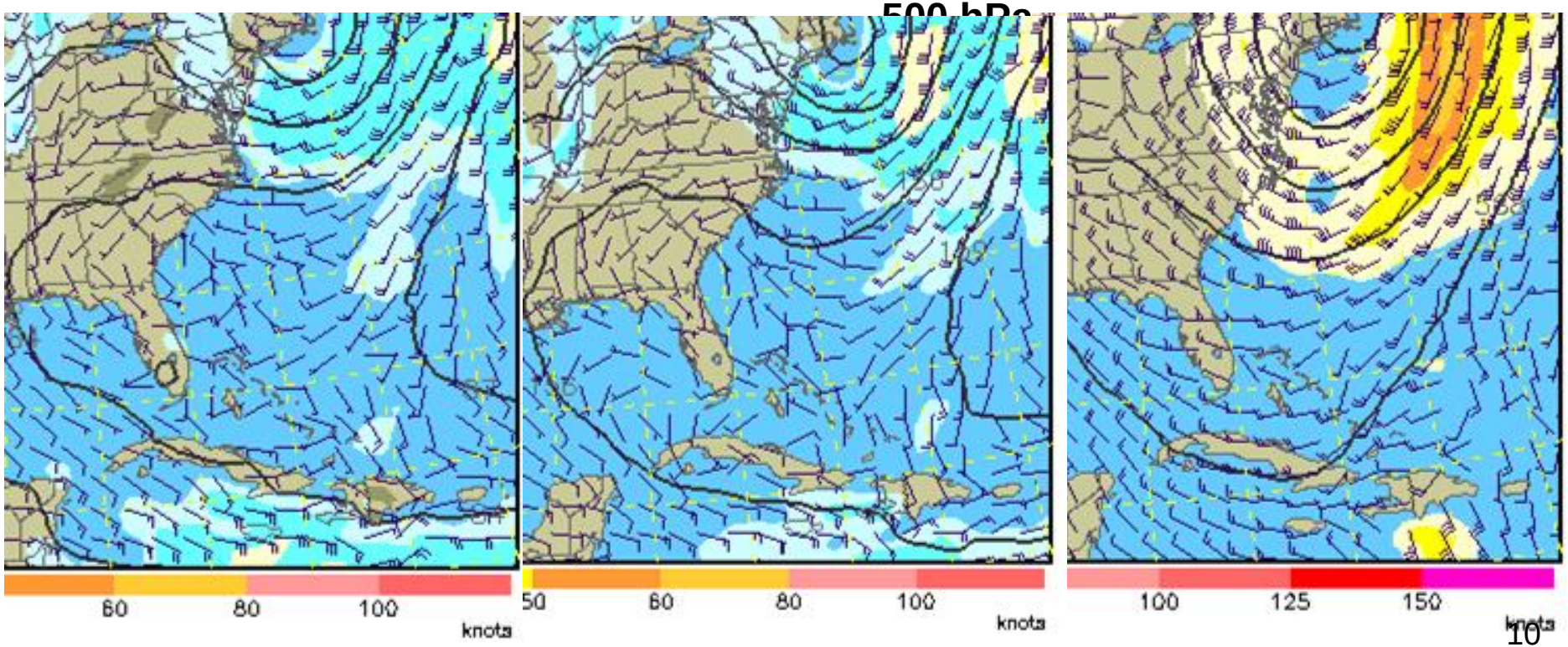


5 PM, Tuesday

NAM Winds

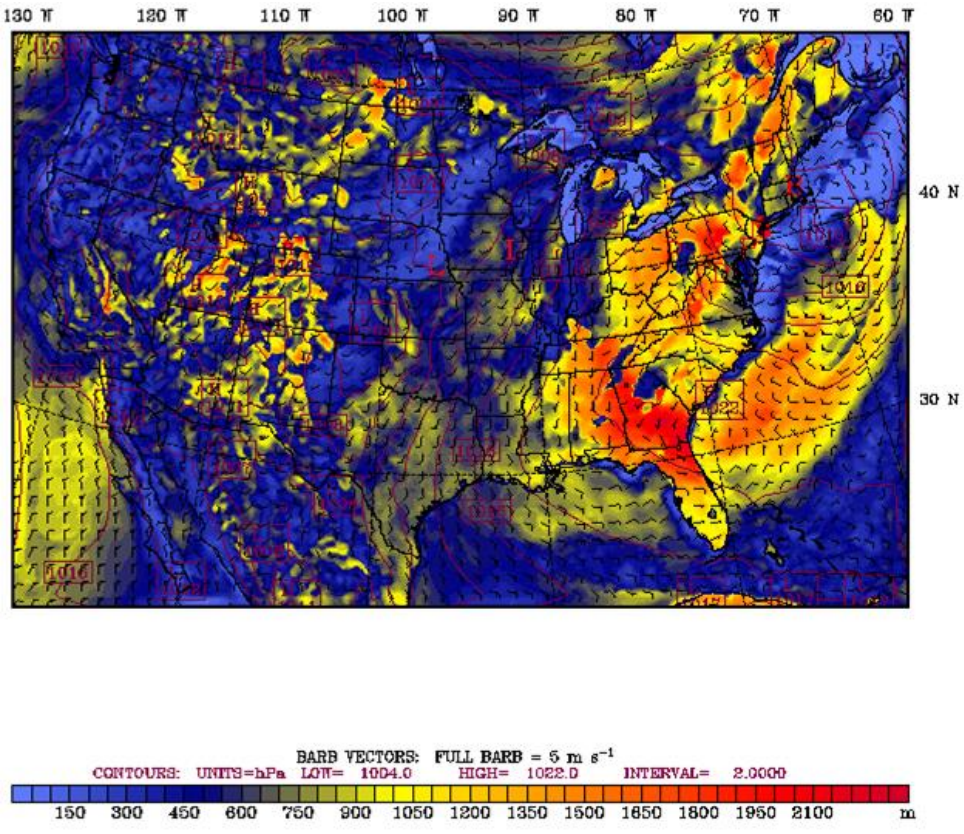
925 hPa

850 hPa

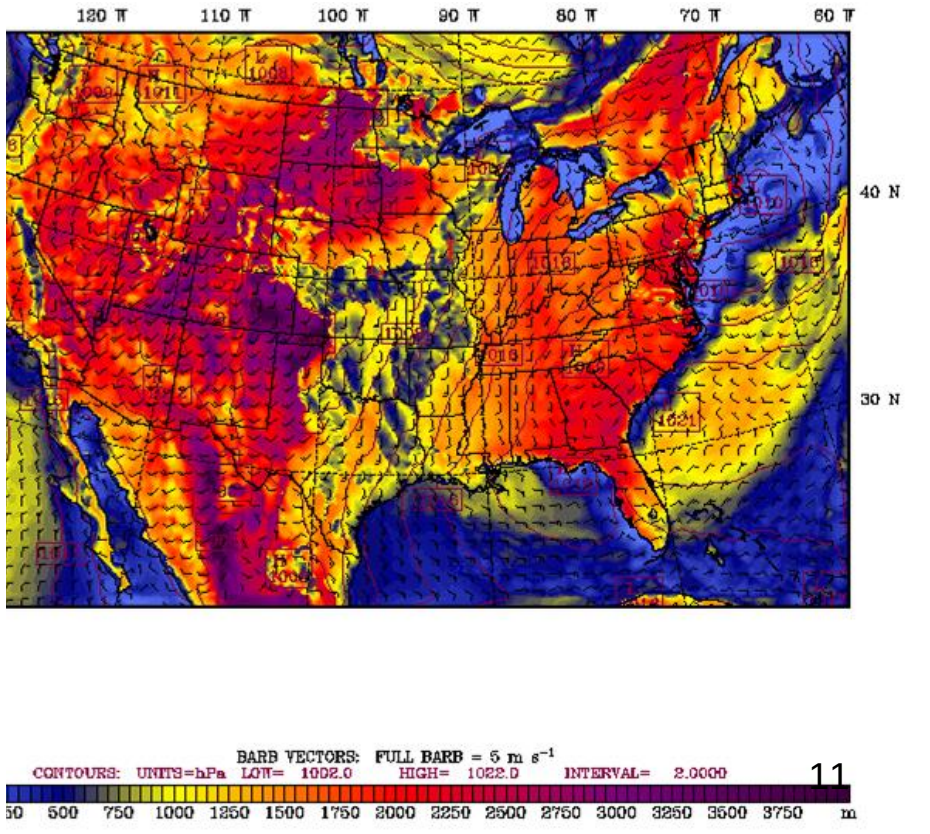


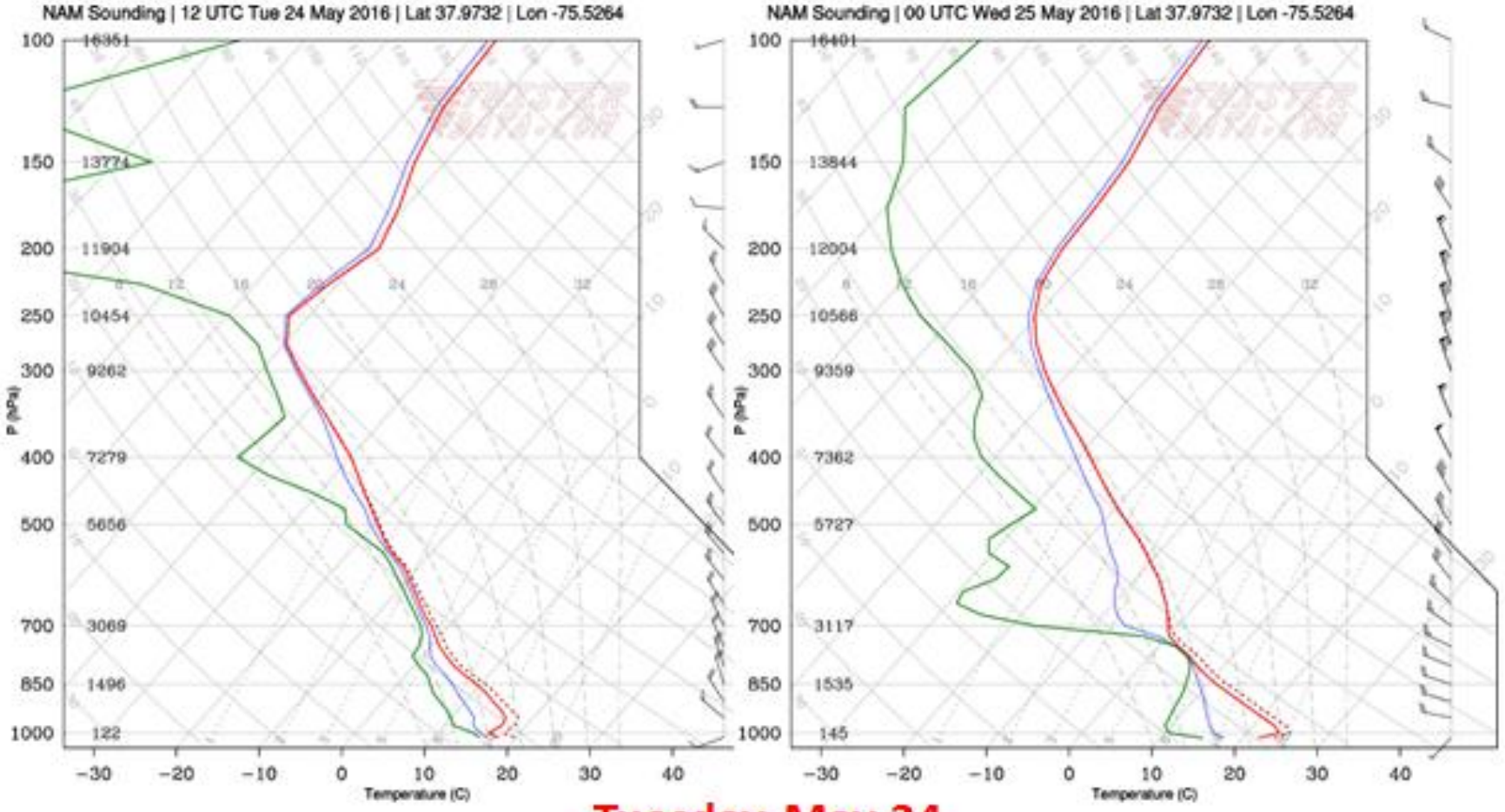
WRF PBL Depth

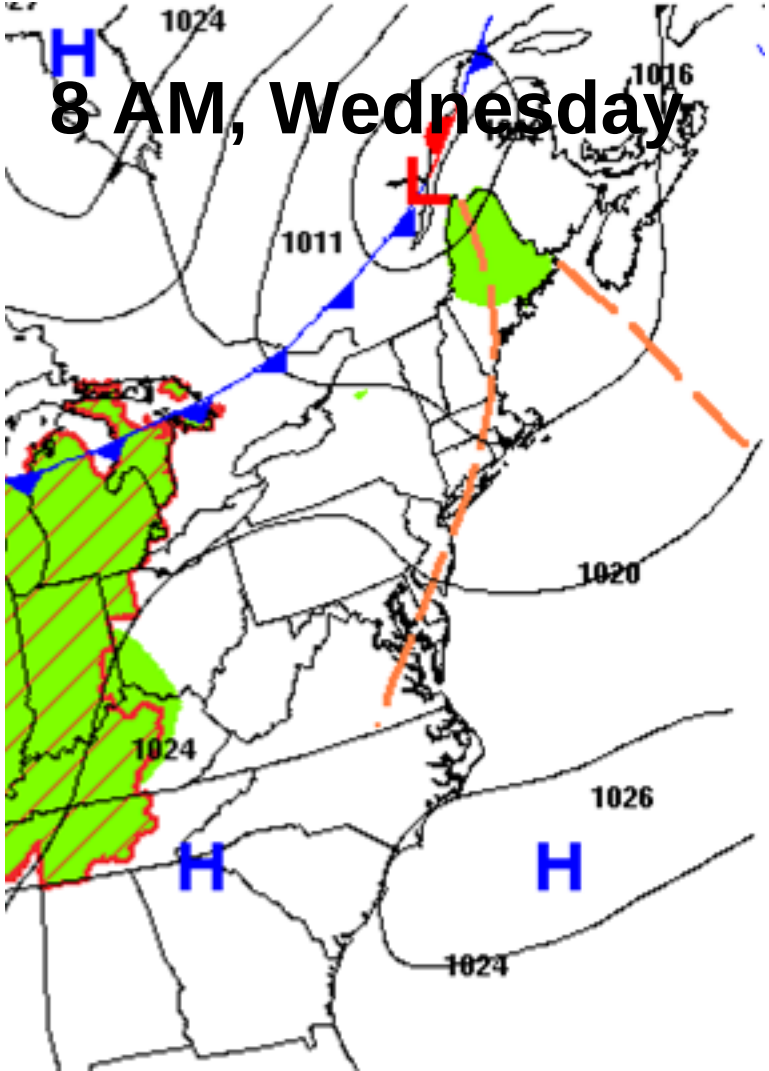
11 AM, Tuesday

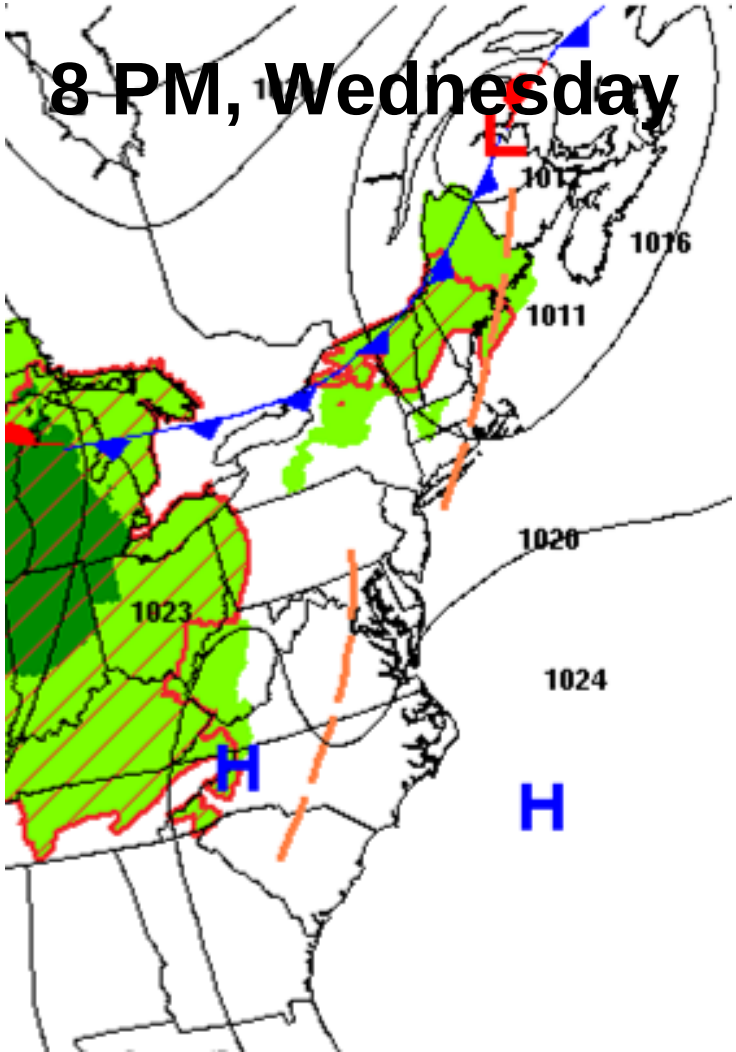


5 PM, Tuesday



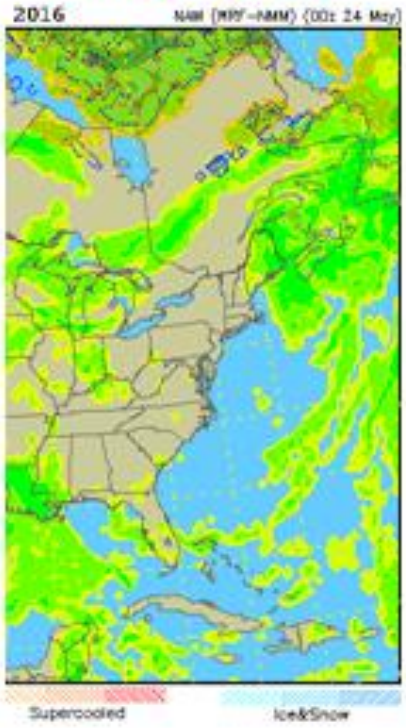

NAM Sounding | 12 UTC Tue 24 May 2016 | Lat 37.9732 | Lon -75.5264
NAM Sounding | 00 UTC Wed 25 May 2016 | Lat 37.9732 | Lon -75.5264
P (hPa)
Temperature (C)
Tuesday May 24


8 AM, Wednesday
H
1024
1016
L
1011
1020
1024
1026
H
H
1024

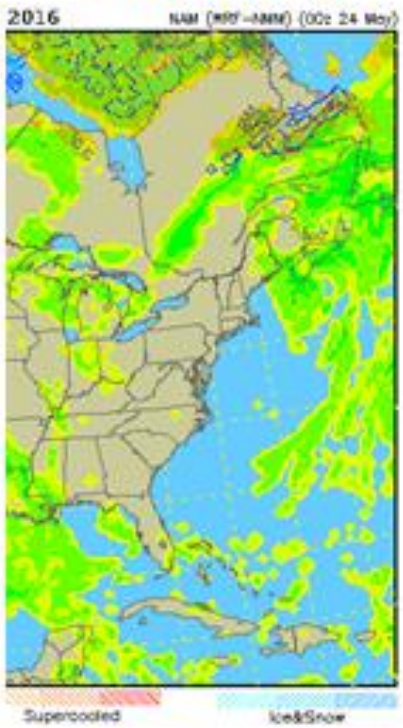

8 PM, Wednesday
L
1016
1011
1020
1023
1024
H
H

Integrated condensate, below 6000 ft – 00 UTC 24 May NAM

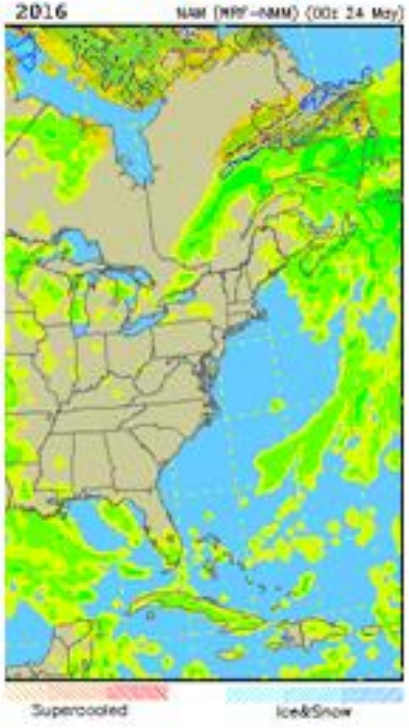
1200 UTC 25 May



1500 UTC 25 May



1800 UTC 25 May



2100 UTC 25 May

Wednesday May 25

Integrated condensate, 6000 – 12000 ft – 00 UTC 24 May NAM

1200 UTC 25 May

1500 UTC 25 May

1800 UTC 25 May

2100 UTC 25 May

Wednesday May 25

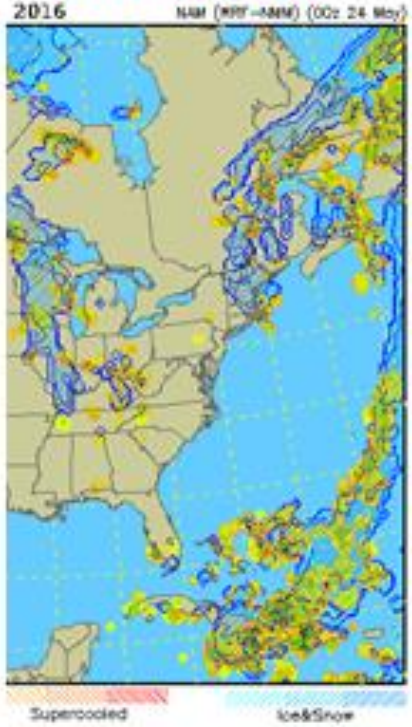
Integrated condensate, 12000 – 18000 ft – 00 UTC 24 May NAM

1200 UTC 25 May

1500 UTC 25 May

1800 UTC 25 May

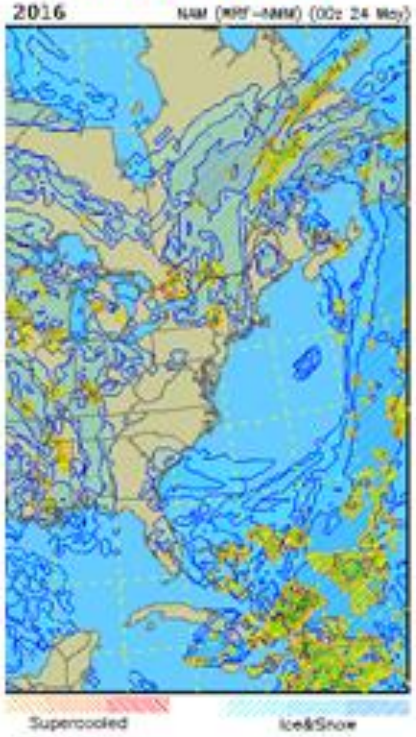
2100 UTC 25 May



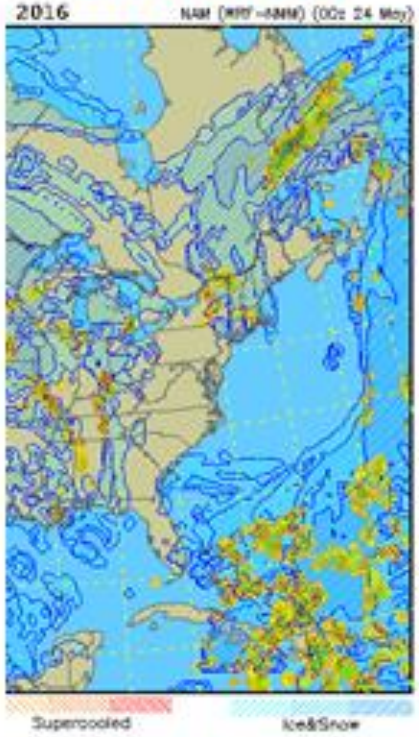
Wednesday May 25

Integrated condensate, above 18000 ft – 00 UTC 24 May NAM

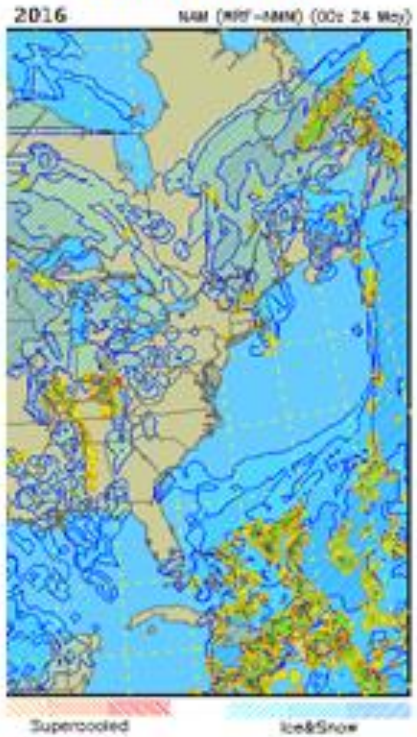
1200 UTC 25 May



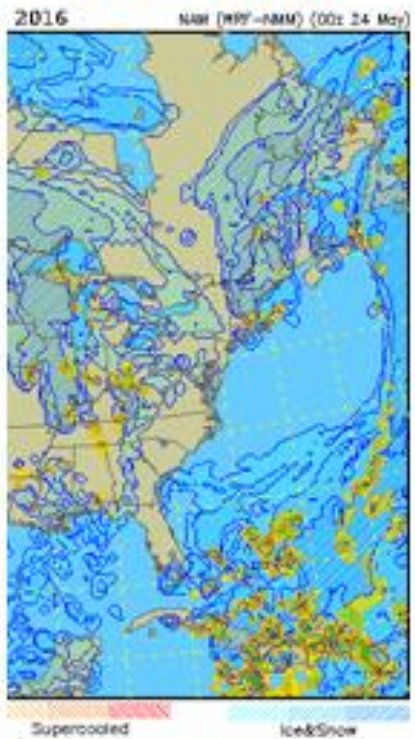
1500 UTC 25 May



1800 UTC 25 May



2100 UTC 25 May



Wednesday May 25

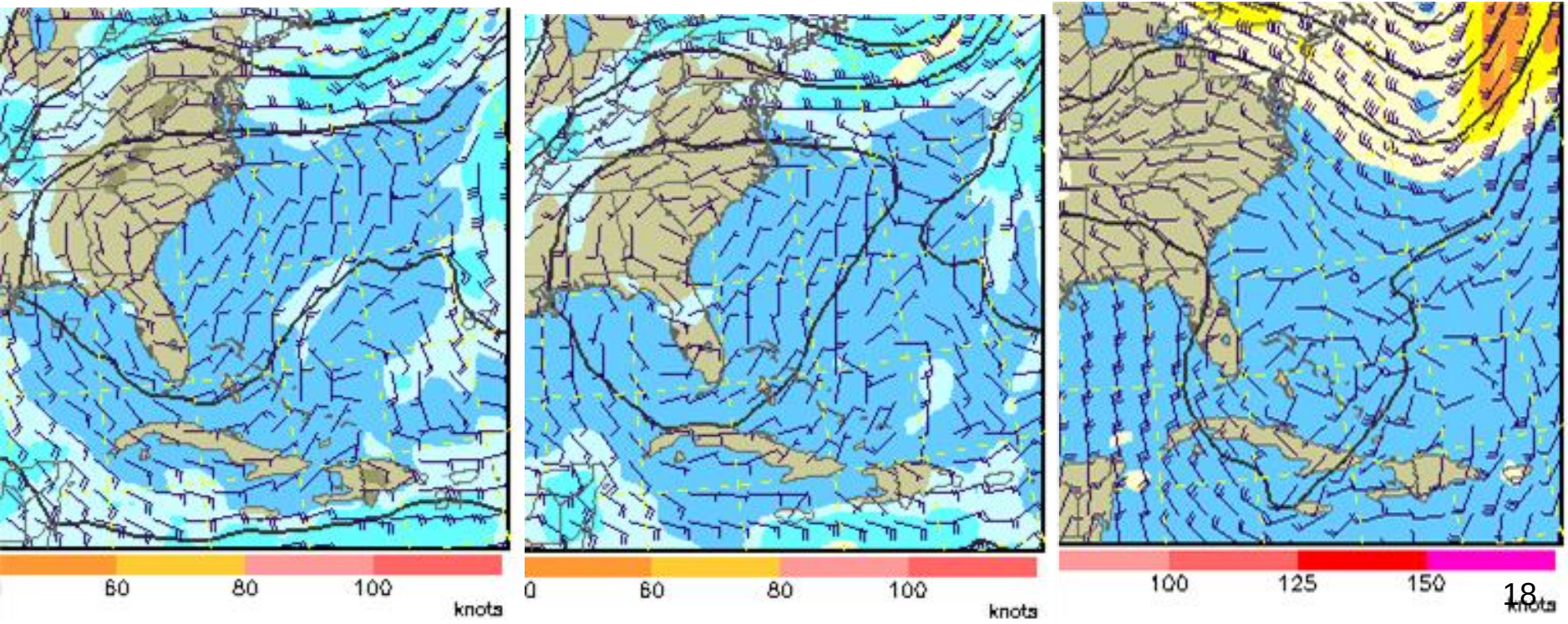
11 AM, Wednesday

NAM Winds

925 hPa

850 hPa

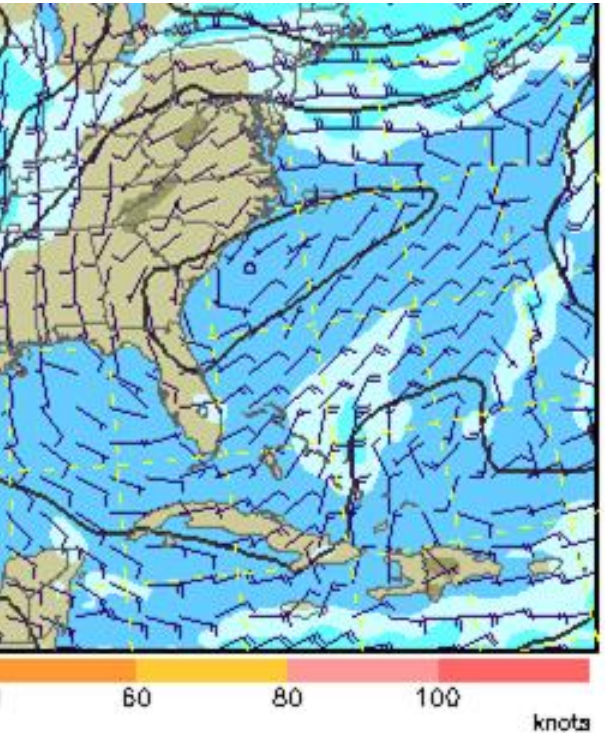
500 hPa



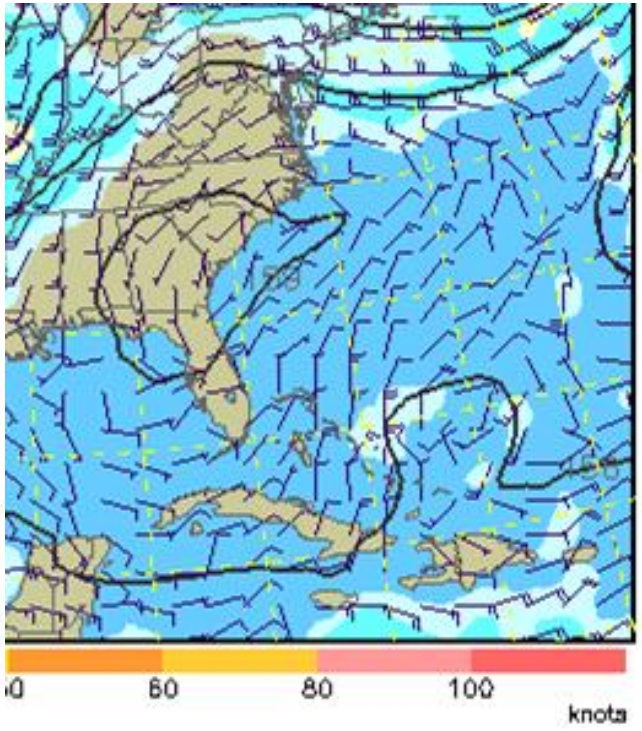
5 PM, Wednesday

NAM Winds

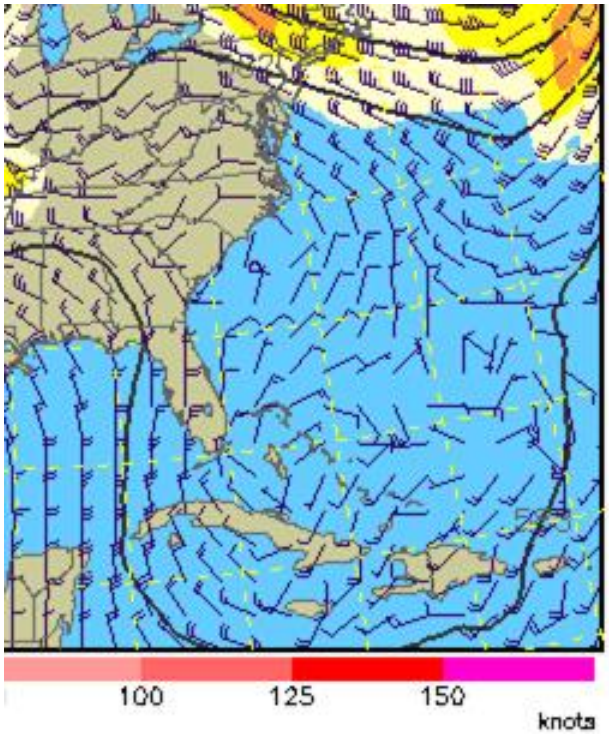
925 hPa



500 hPa

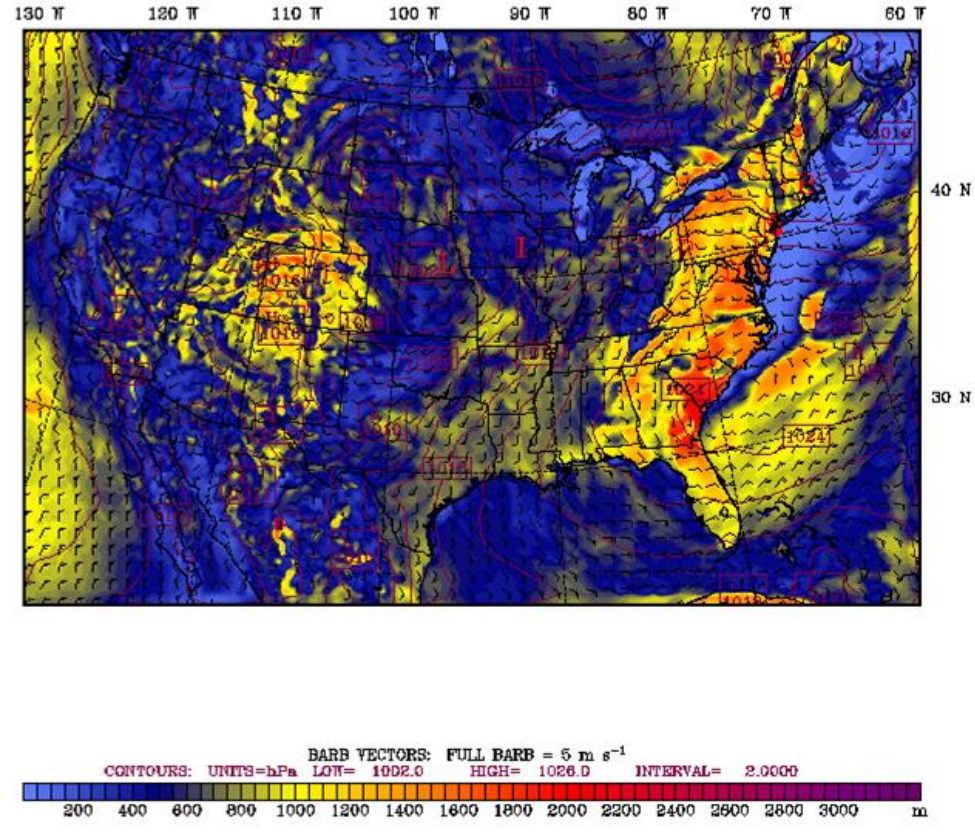


850 hPa

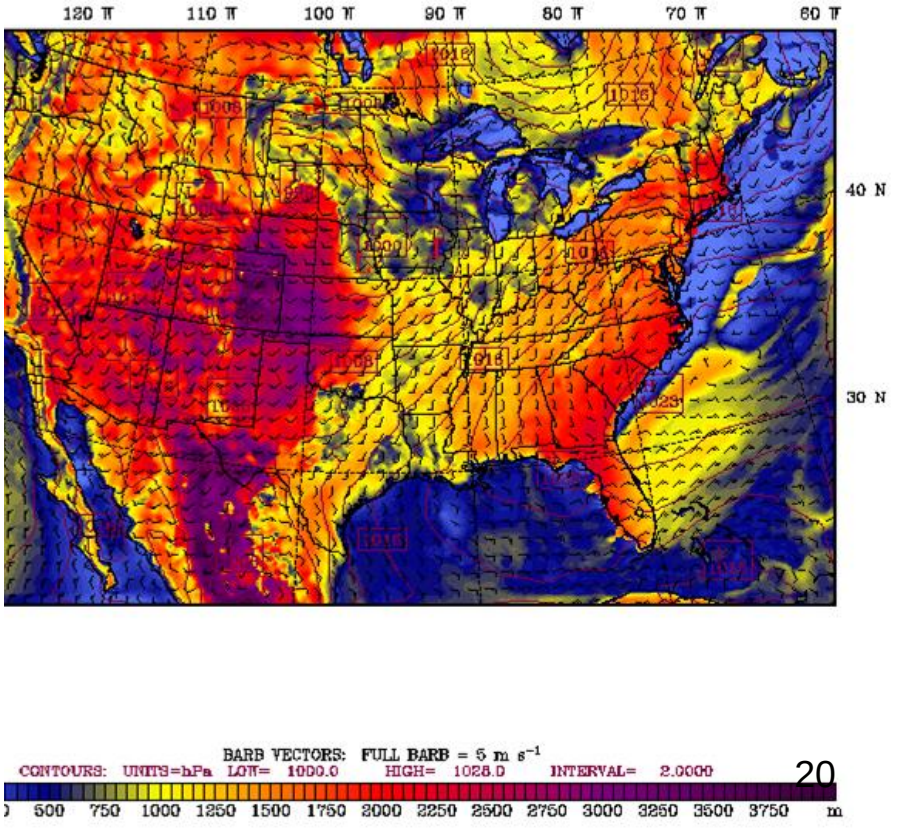


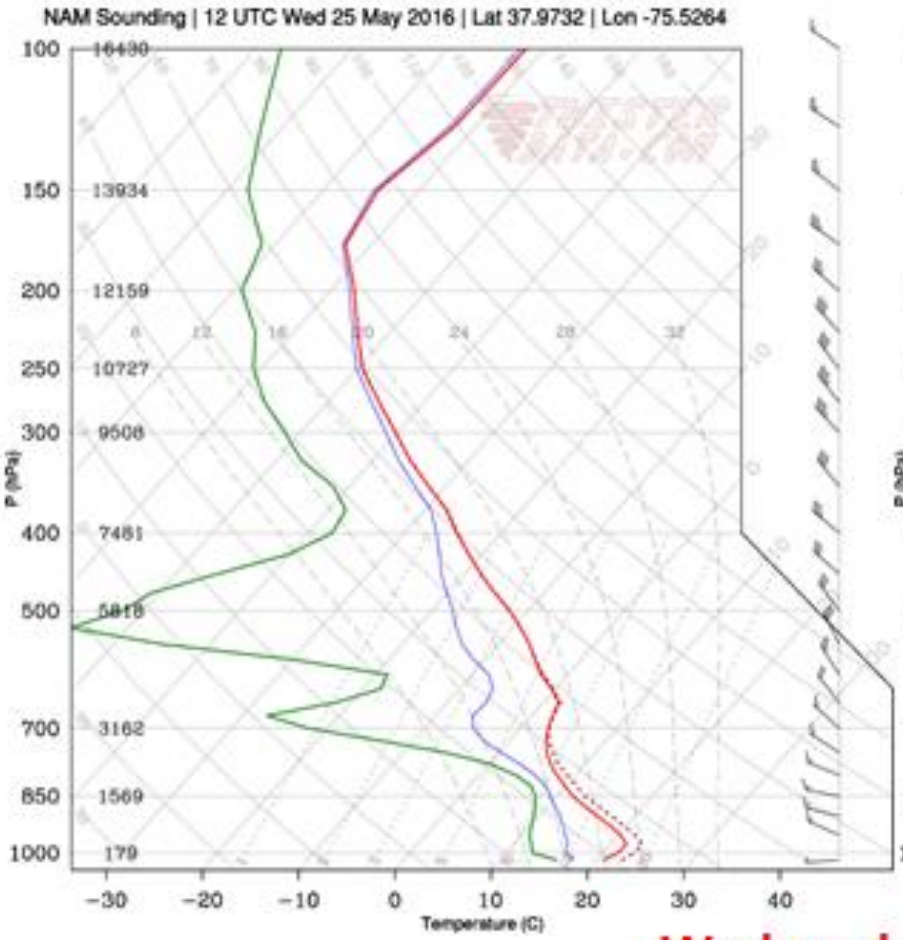
WRF PBL Depth

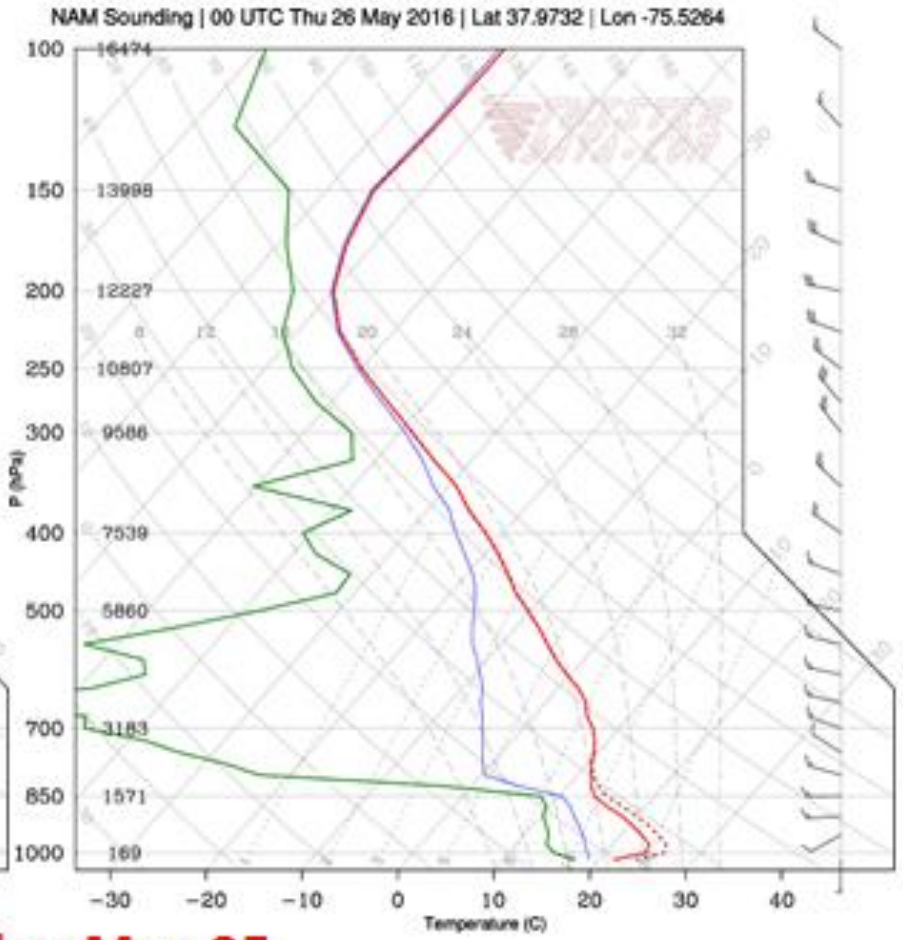
11 AM, Wednesday



5 PM, Wednesday





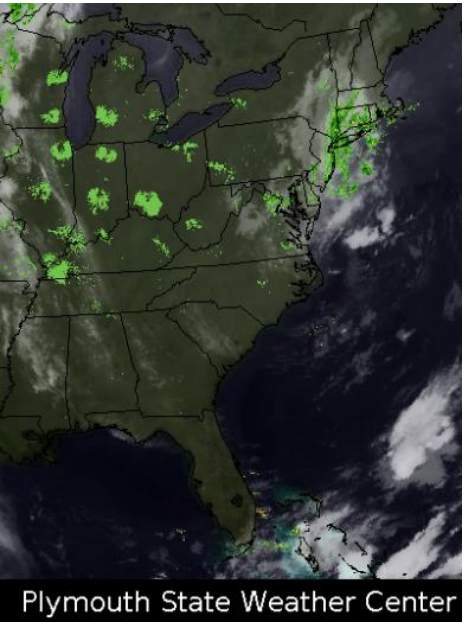


Wednesday May 25

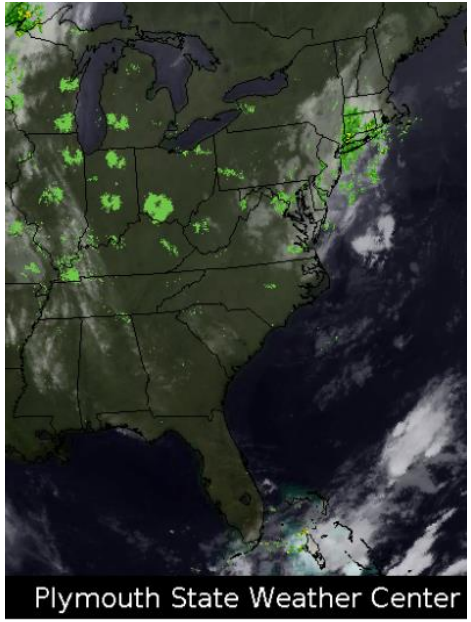
Present/Update Cloud Cover Condition and Precipitation System moving towards E/NE driven by prevailing synoptic westerly

CONUS Satellite/Radar/Warning Composite: GOES IR Satellite/NEXRAD Radar
http://cimss.ssec.wisc.edu/geocat/

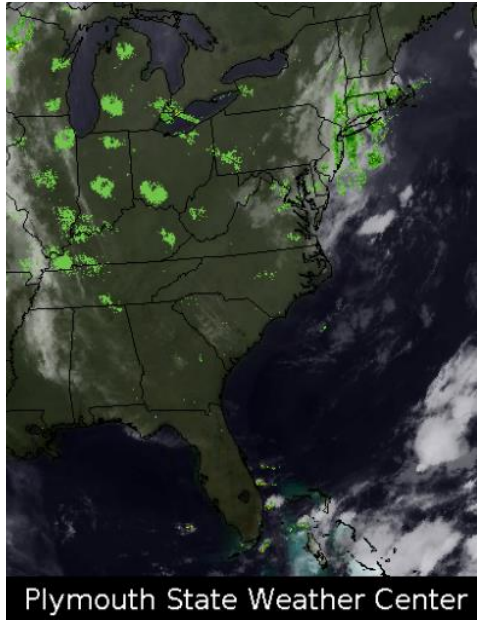
09:00 Z



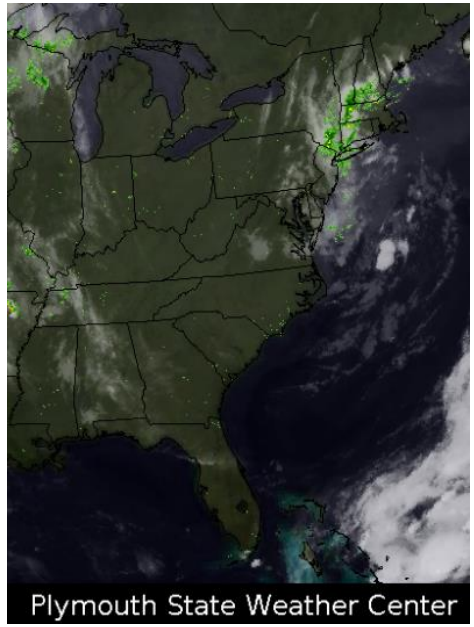
10:00 Z



11:00 Z



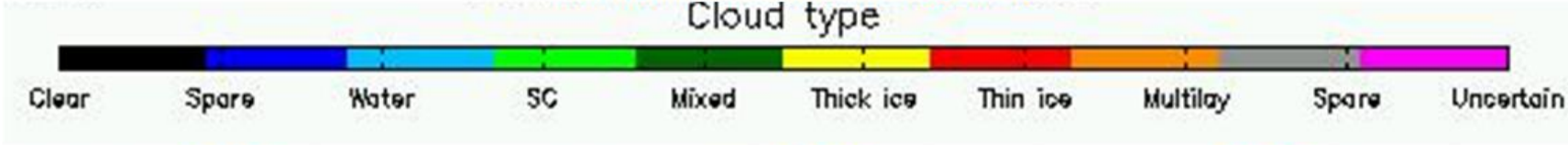
12:00 Z



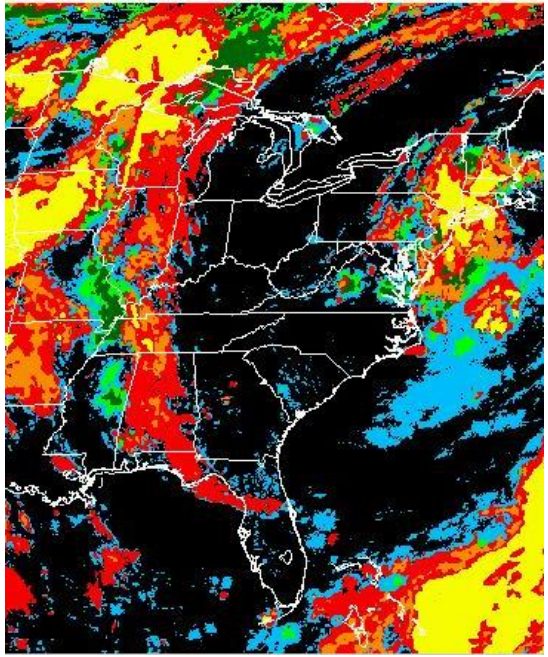
Present/Update Cloud Cover Condition and Precipitation System moving towards E/NE driven by prevailing synoptic westerly

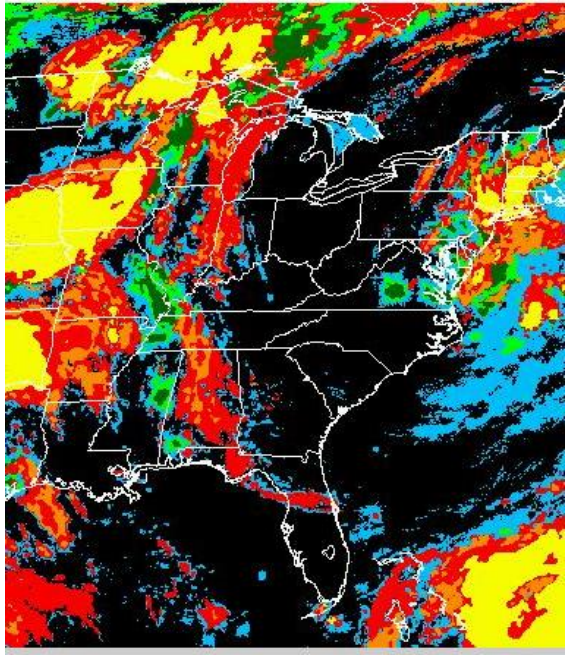
GEOstationary Cloud Algorithm Test-bed (GEOCAT)

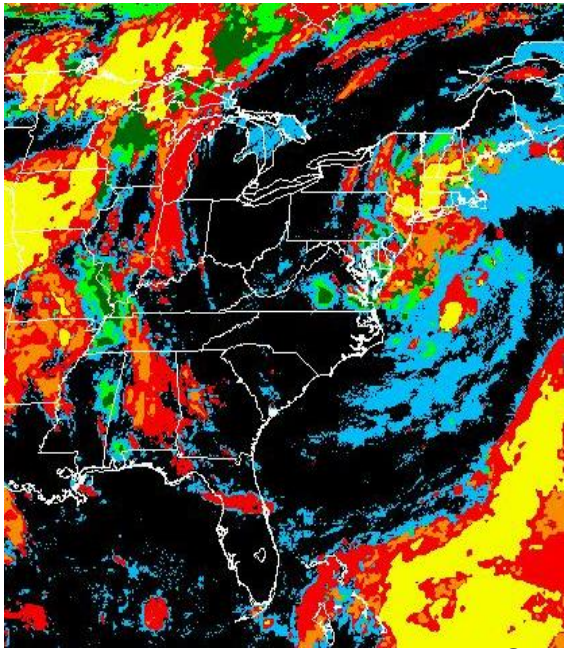
http://cimss.ssec.wisc.edu/geocat/

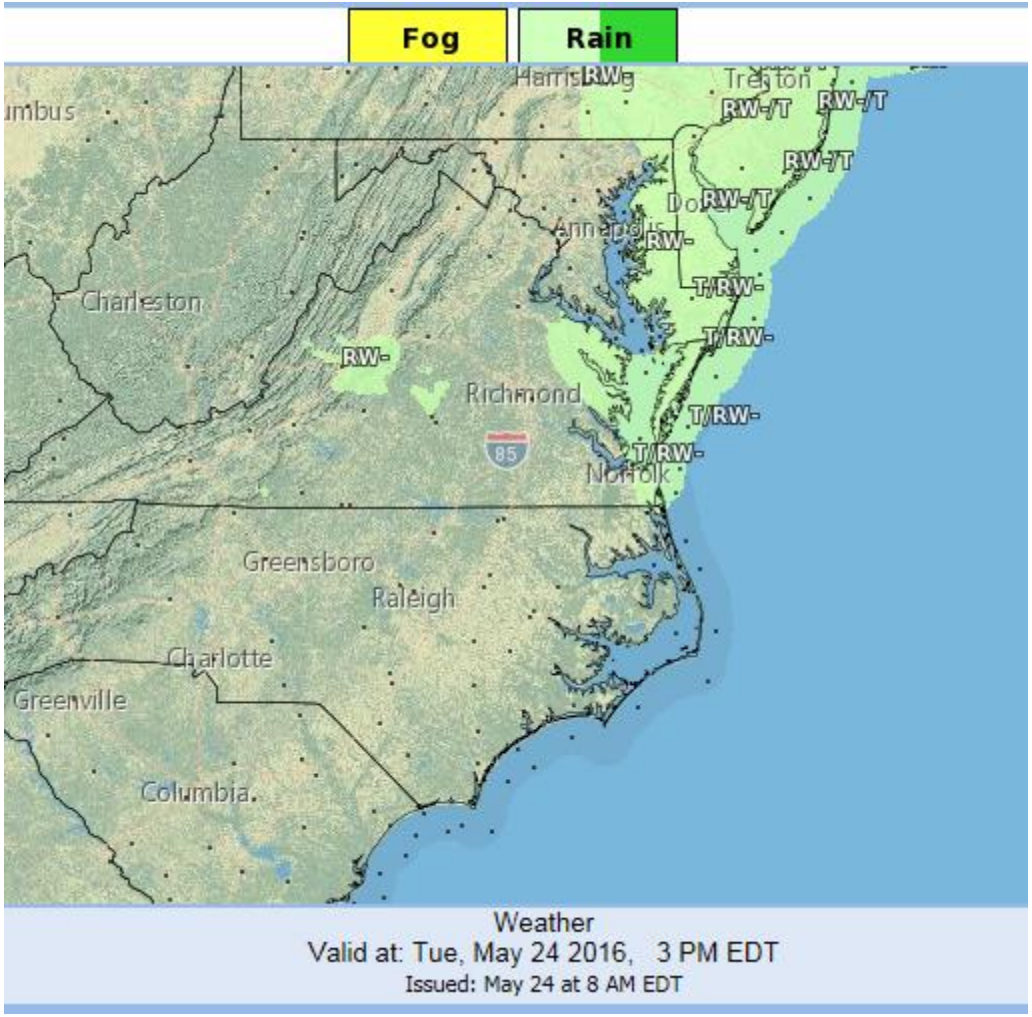


10:00 Z **Low Pressure Departing!** 11:00 Z 12:00 Z



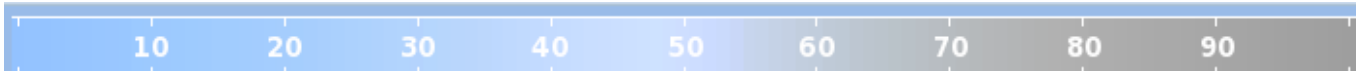


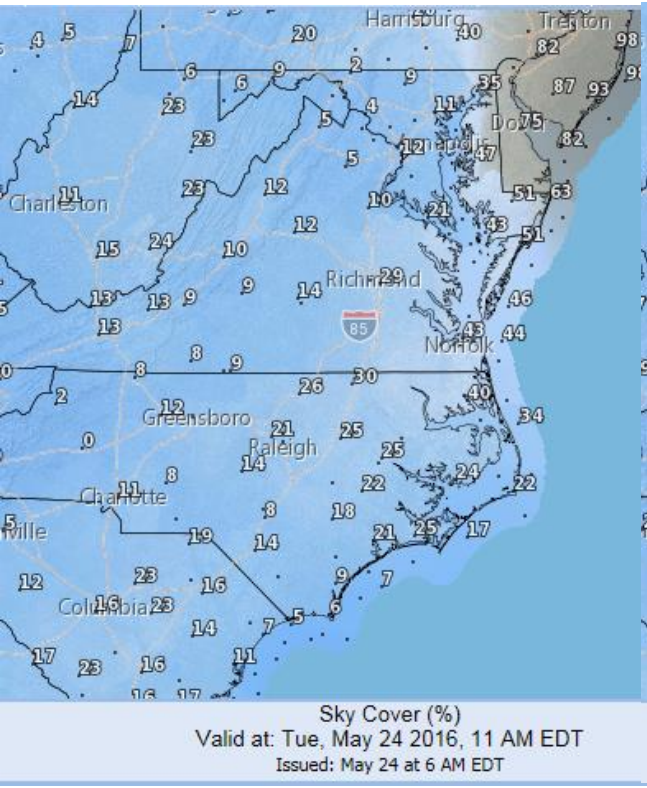



Fog
Rain
Harrisburg
Trenton
RW-/T
RW-
T/RW-
Annapolis
Charleston
Richmond
85
Norfolk
Greensboro
Raleigh
Charlotte
Greenville
Columbia
Weather
Valid at: Tue, May 24 2016, 3 PM EDT
Issued: May 24 at 8 AM EDT

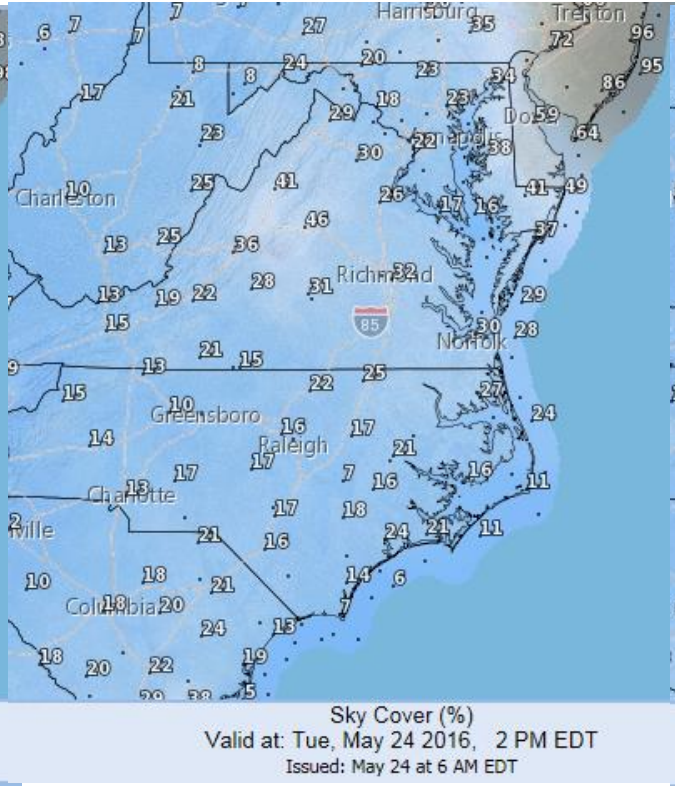
Ocean Flight: Remains cloudy, clearing out later in the afternoon while land flight ~30% cloud cover entire day

Cloud Cover Today

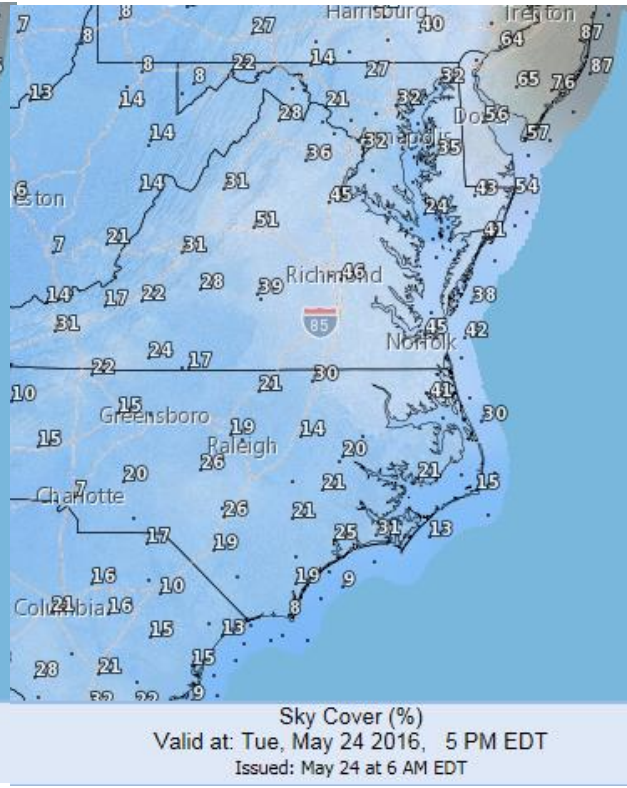




Sky Cover (%)
Valid at: Tue, May 24 2016, 11 AM EDT
Issued: May 24 at 6 AM EDT



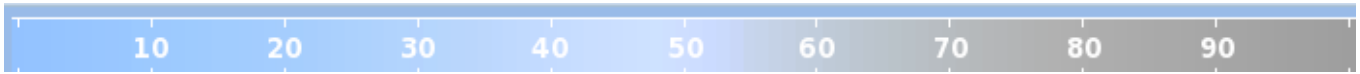
Sky Cover (%)
Valid at: Tue, May 24 2016, 2 PM EDT
Issued: May 24 at 6 AM EDT

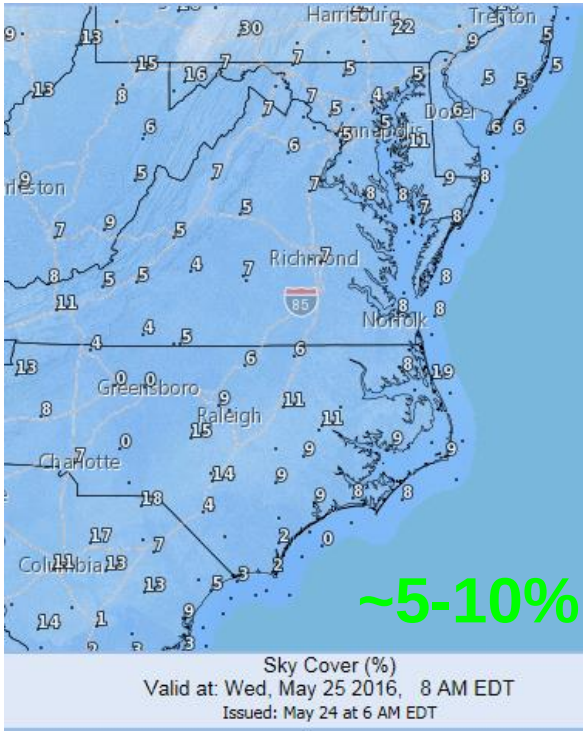


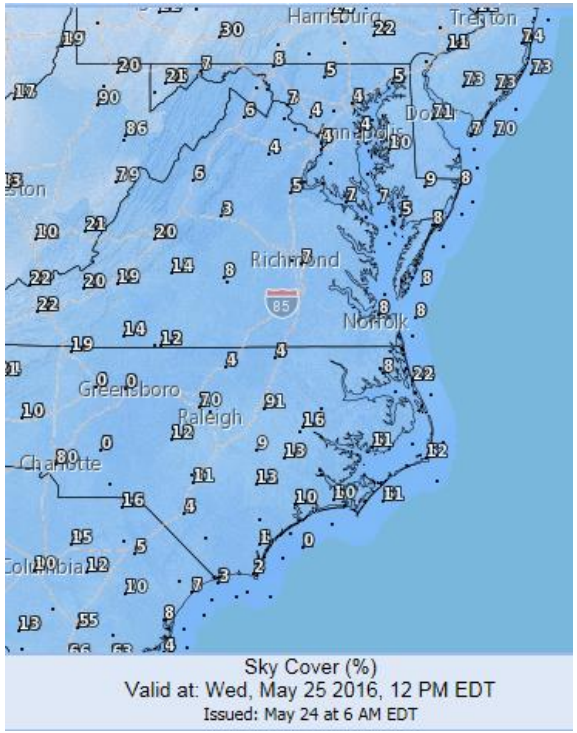
Sky Cover (%)
Valid at: Tue, May 24 2016, 5 PM EDT
Issued: May 24 at 6 AM EDT

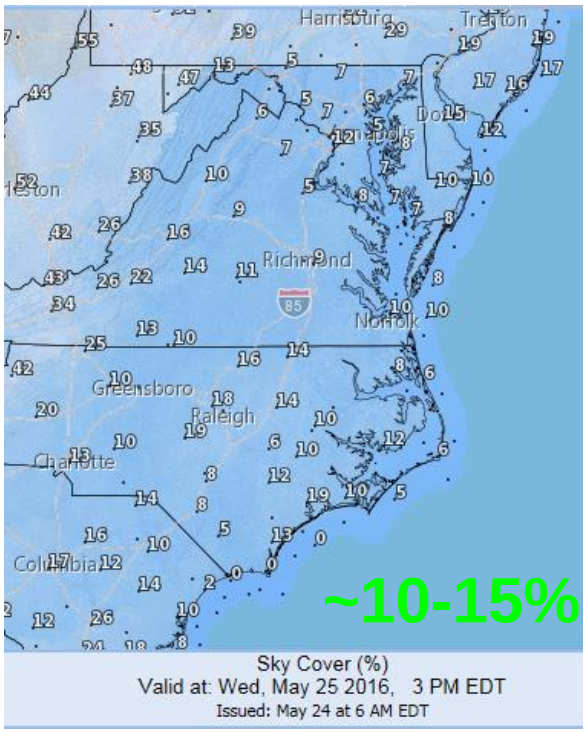
VALID: 11AM EST 2PM EST 5PM EST

Cloud Cover Tomorrow







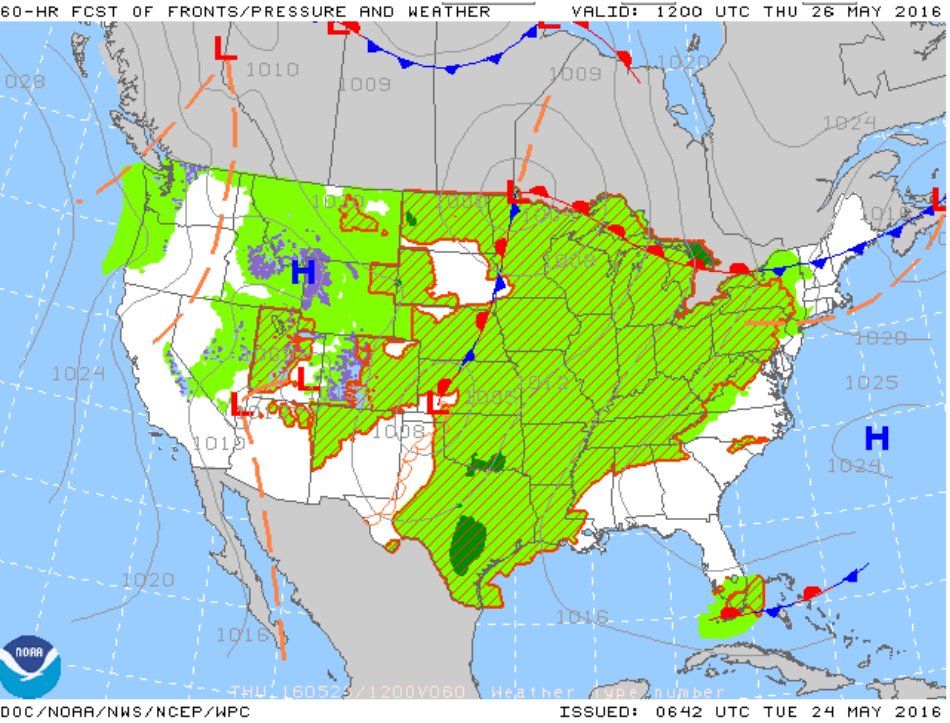


VALID: 8AM EST

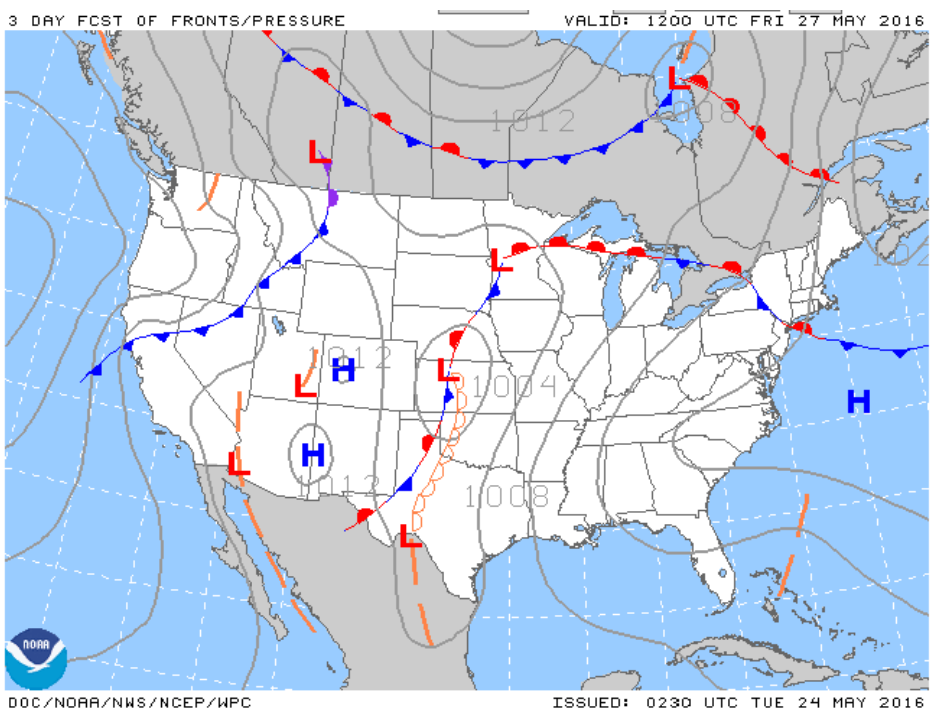
12PM EST

3PM EST

Long Range Outlook
(THURSDAY-FRIDAY)

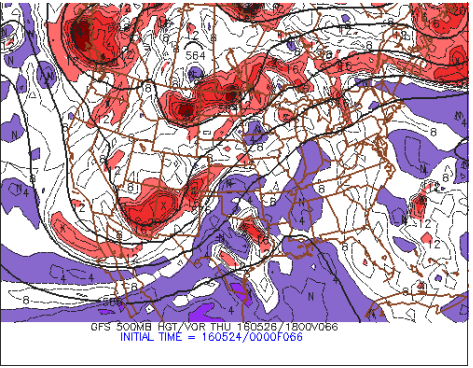


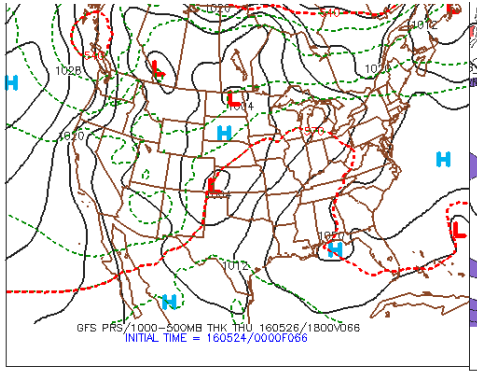
12Z Thursday May 26, 2016

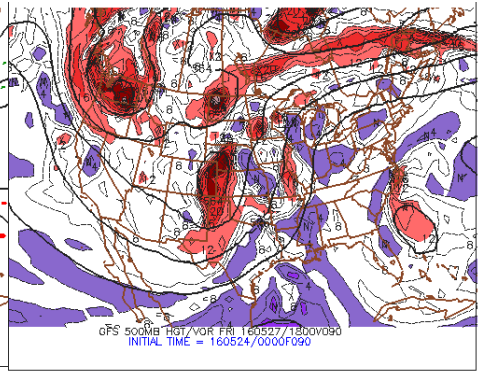


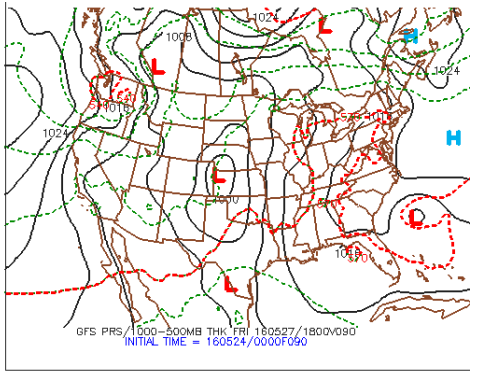
12Z Friday May 27, 2016

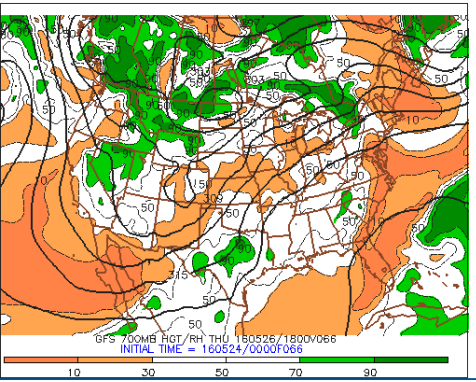
Penn State e-Wall: http://mp1.met.psu.edu/~fxg1/AVN_0z/avnloopnew.html

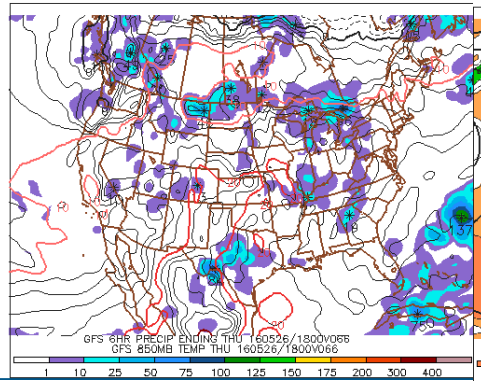


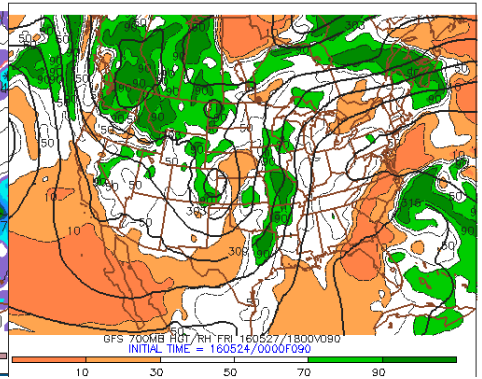


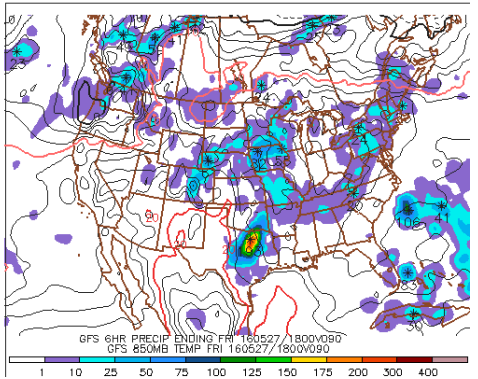








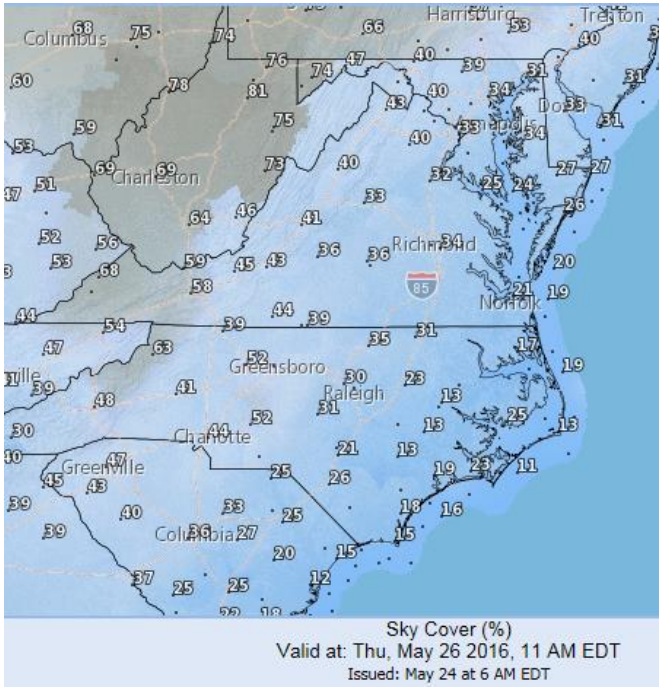




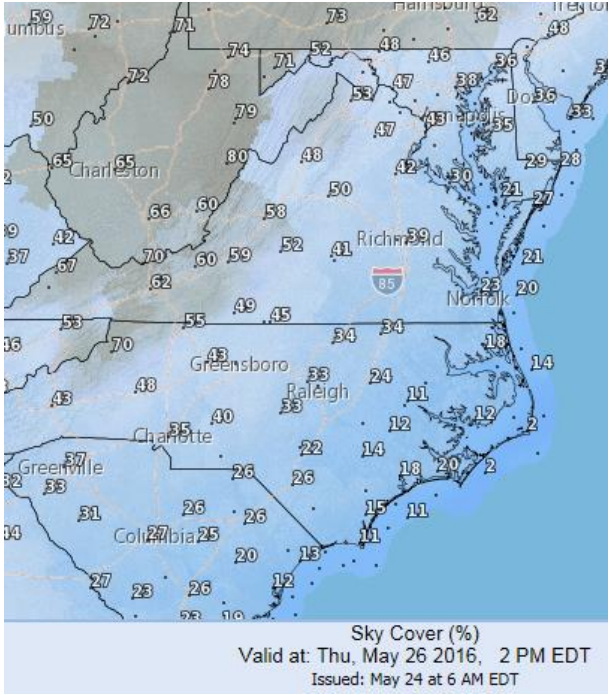
18Z Thursday May 26, 2016

18Z Friday May 27, 2016

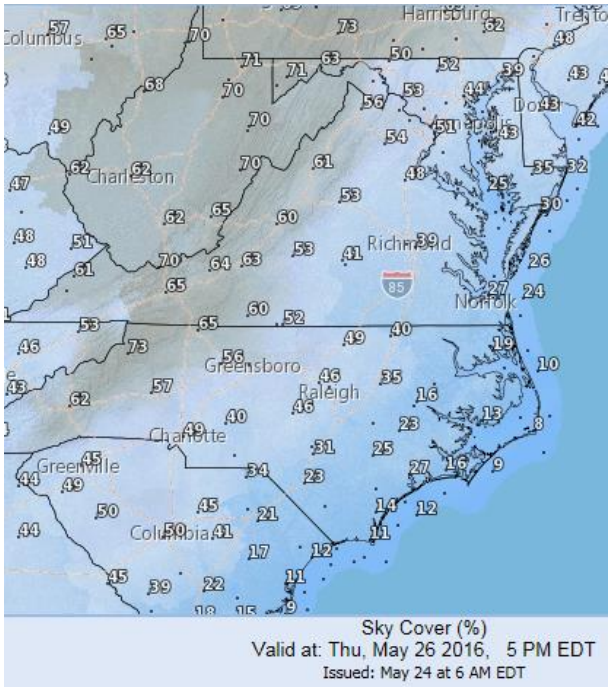
Cloud Cover Thursday



11AM EST

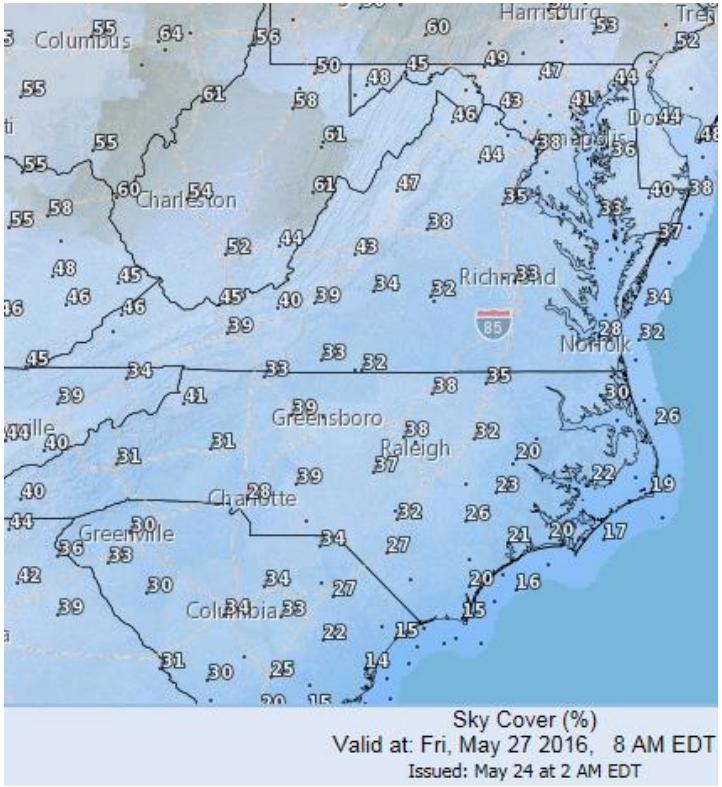


2 PM EST

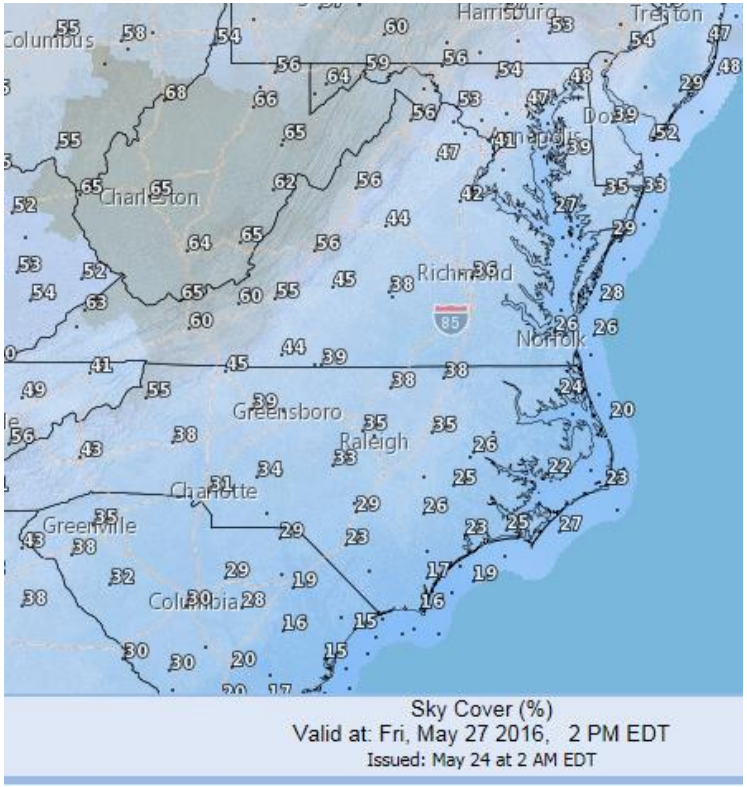


5PM EST

Friday Cloud Cover



8 AM EST



2 PM EST

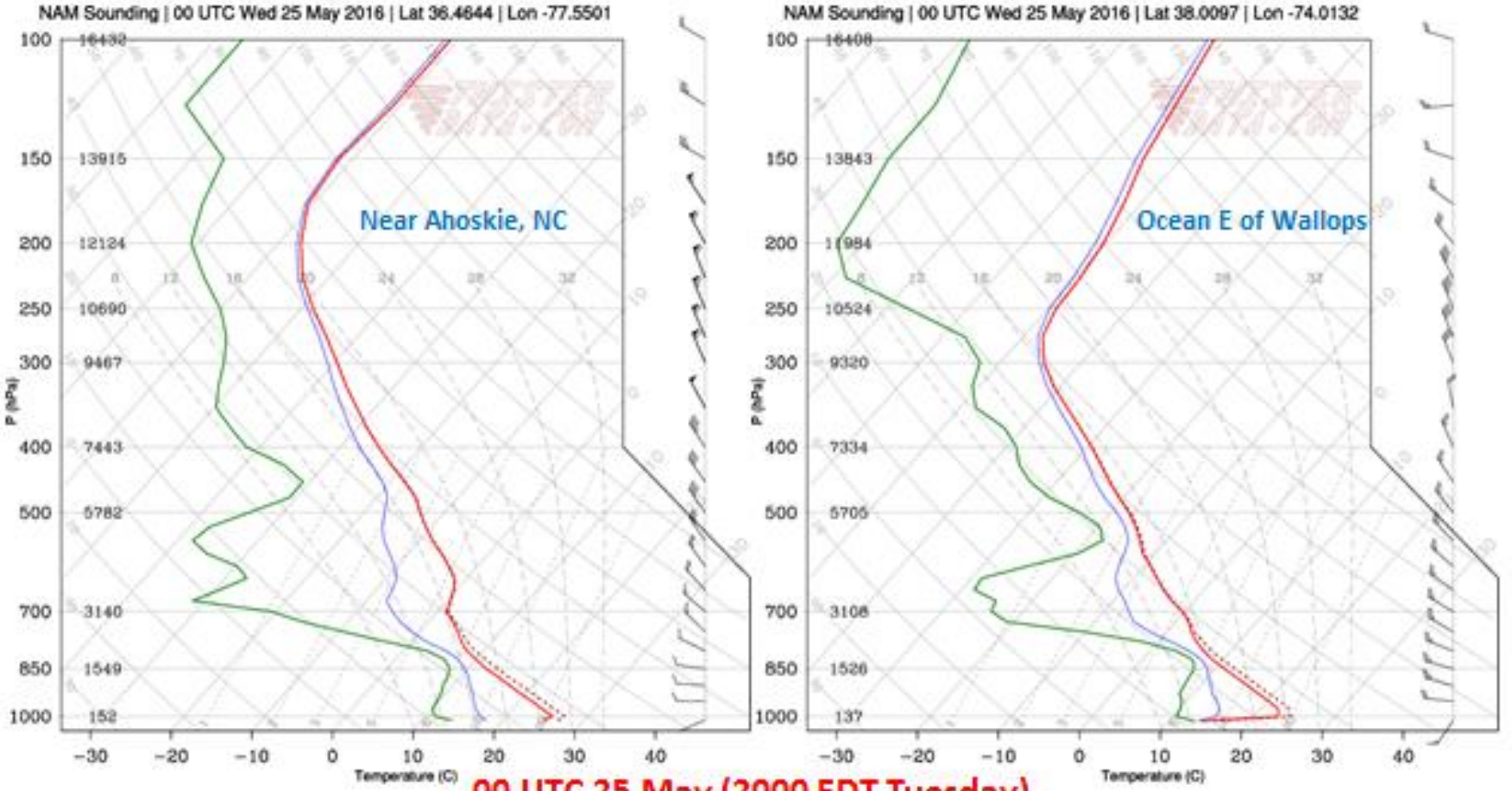
Long Range Synopsis

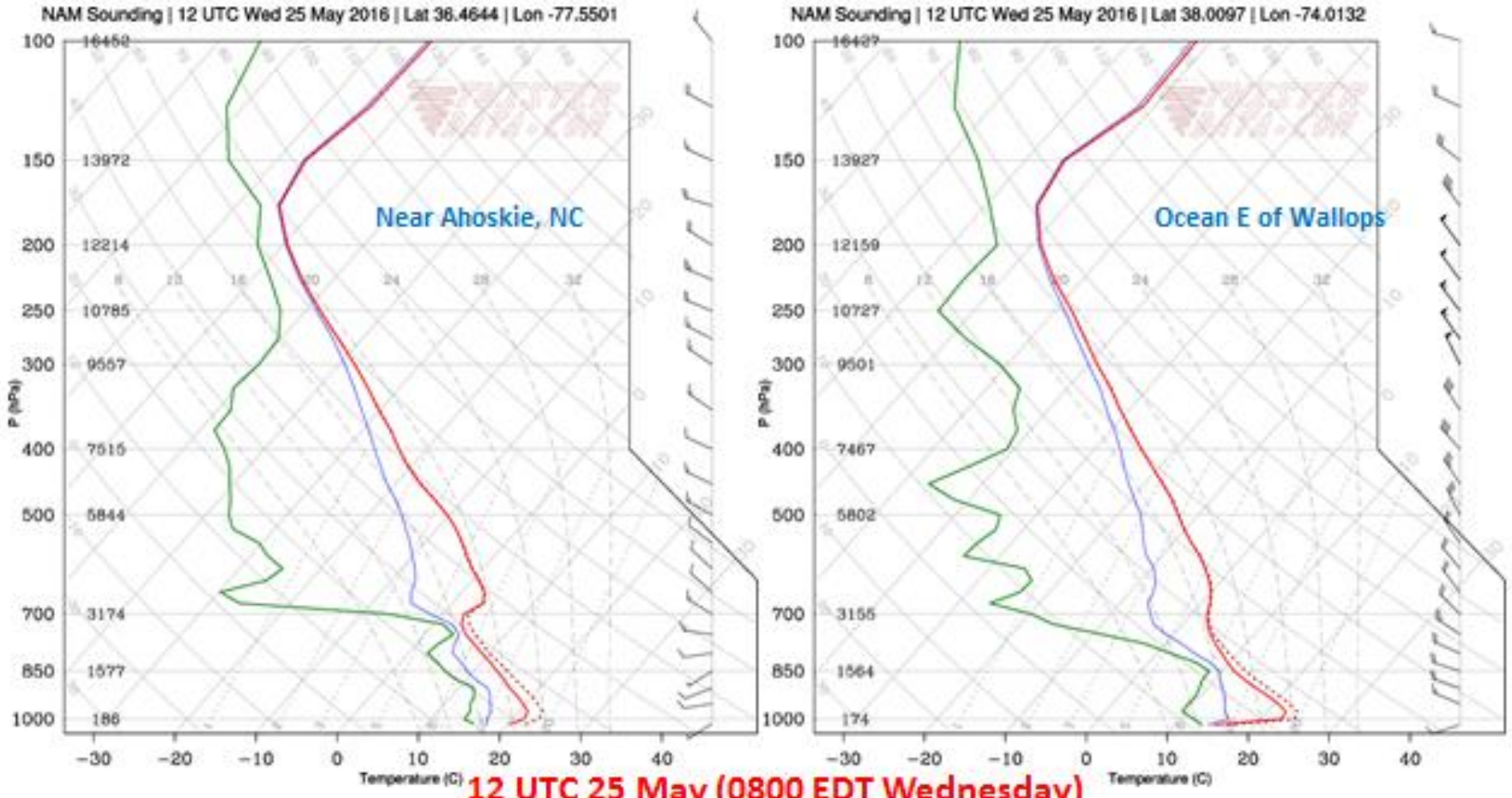
THURSDAY: Clouds increasing as the day progresses, land flight cloud cover increasing from ~30% to ~40%. However ocean flight looks alright with cloud cover around 25% for the entire day.

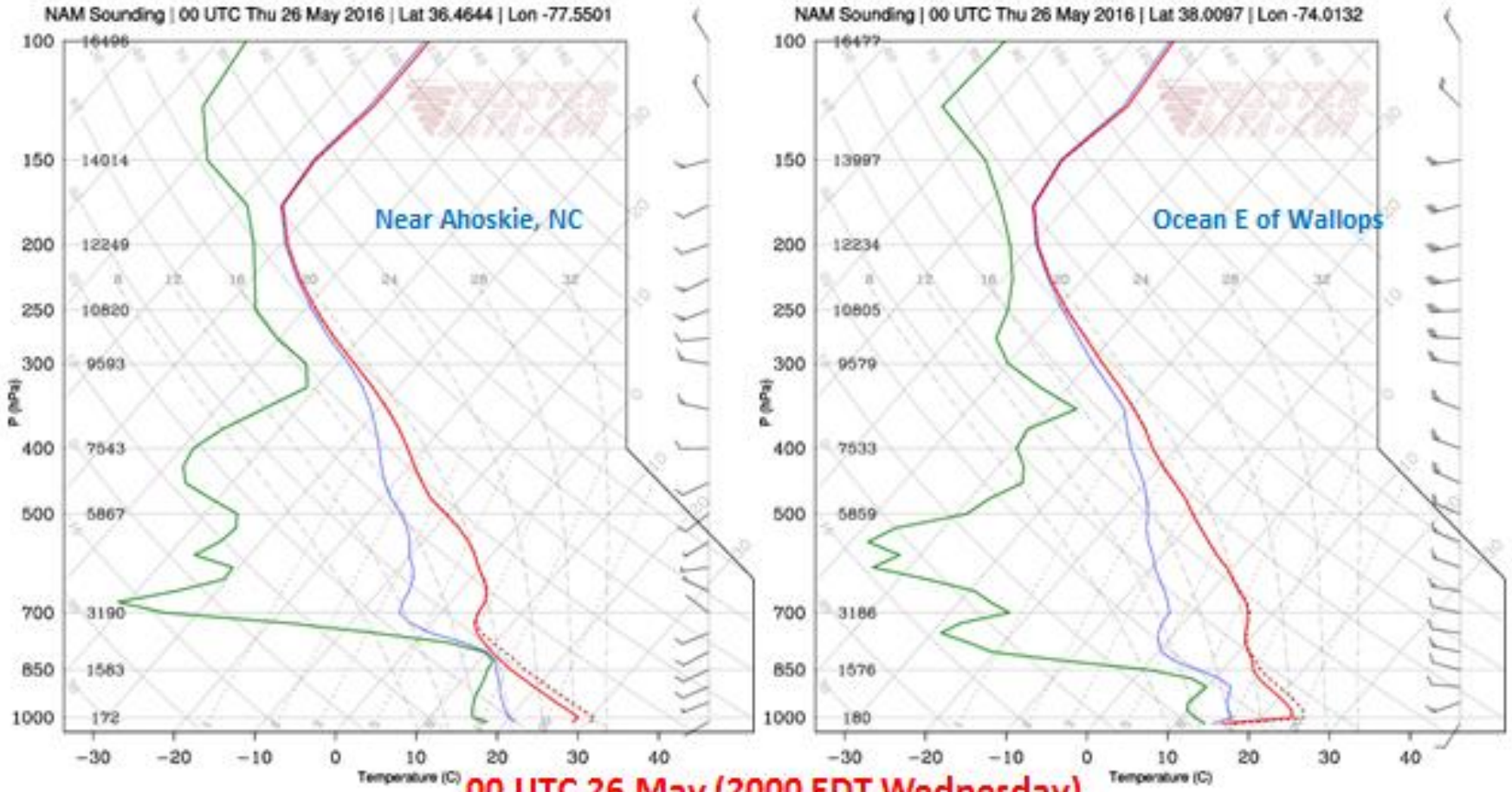
FRIDAY: Cloud cover ~35% for both land and ocean flights for the entire day.

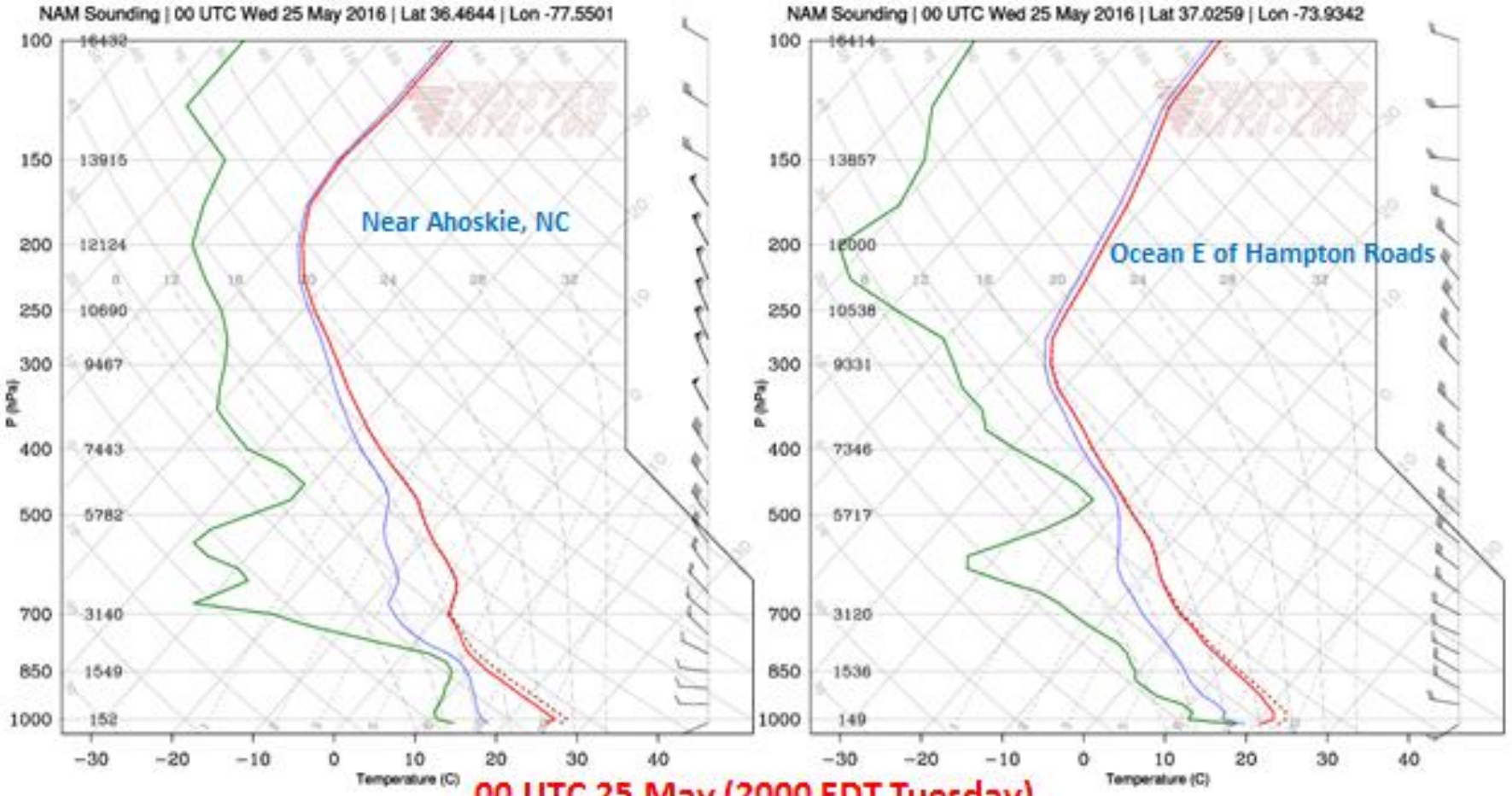
Additional Slides

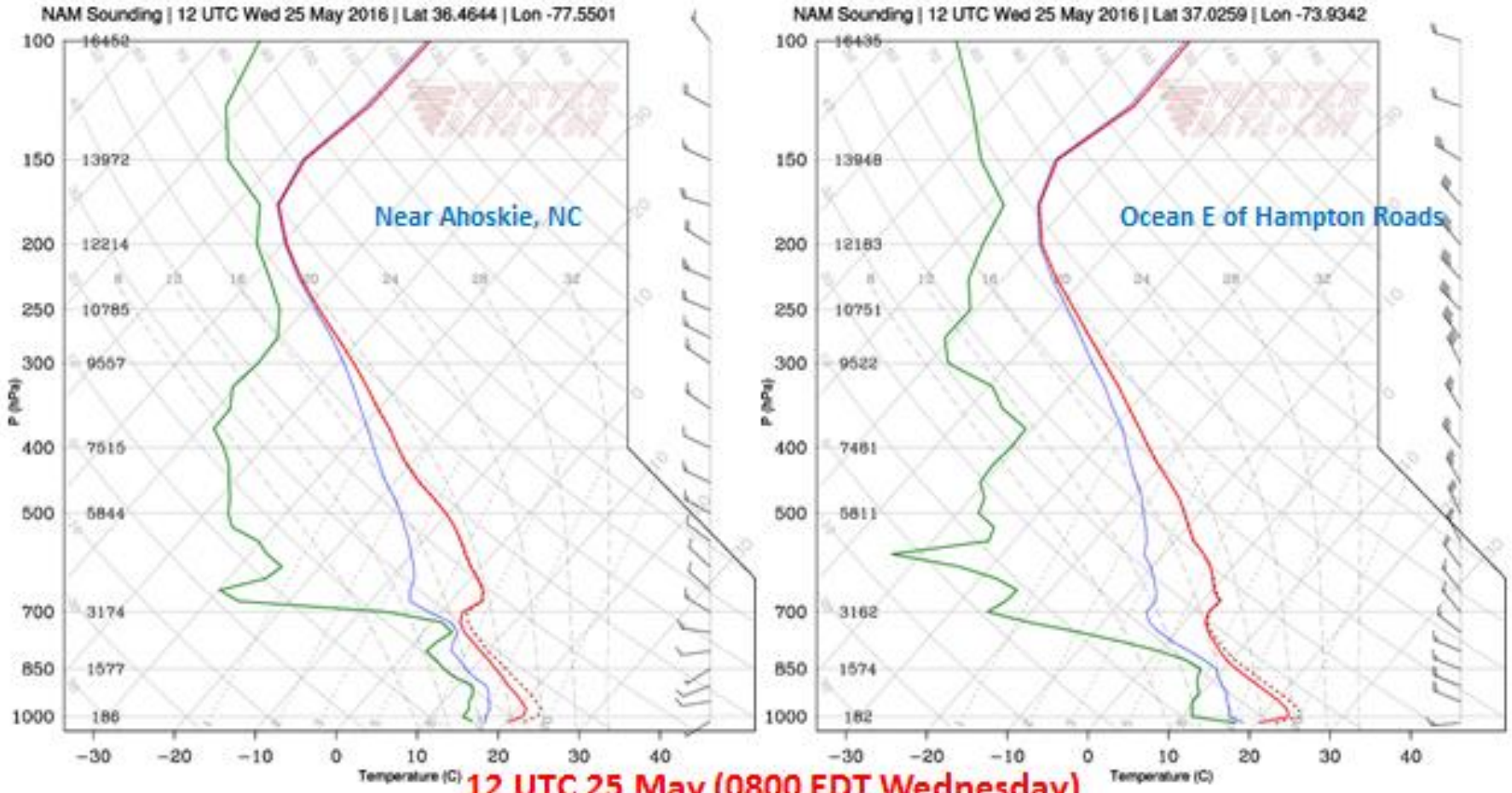
NAM forecast soundings (those to follow from Tue morning 12 UTC NAM model cycle) for locations near Ahoskie, NC, in ocean due east of Wallops Island, and in ocean due east of Hampton Roads

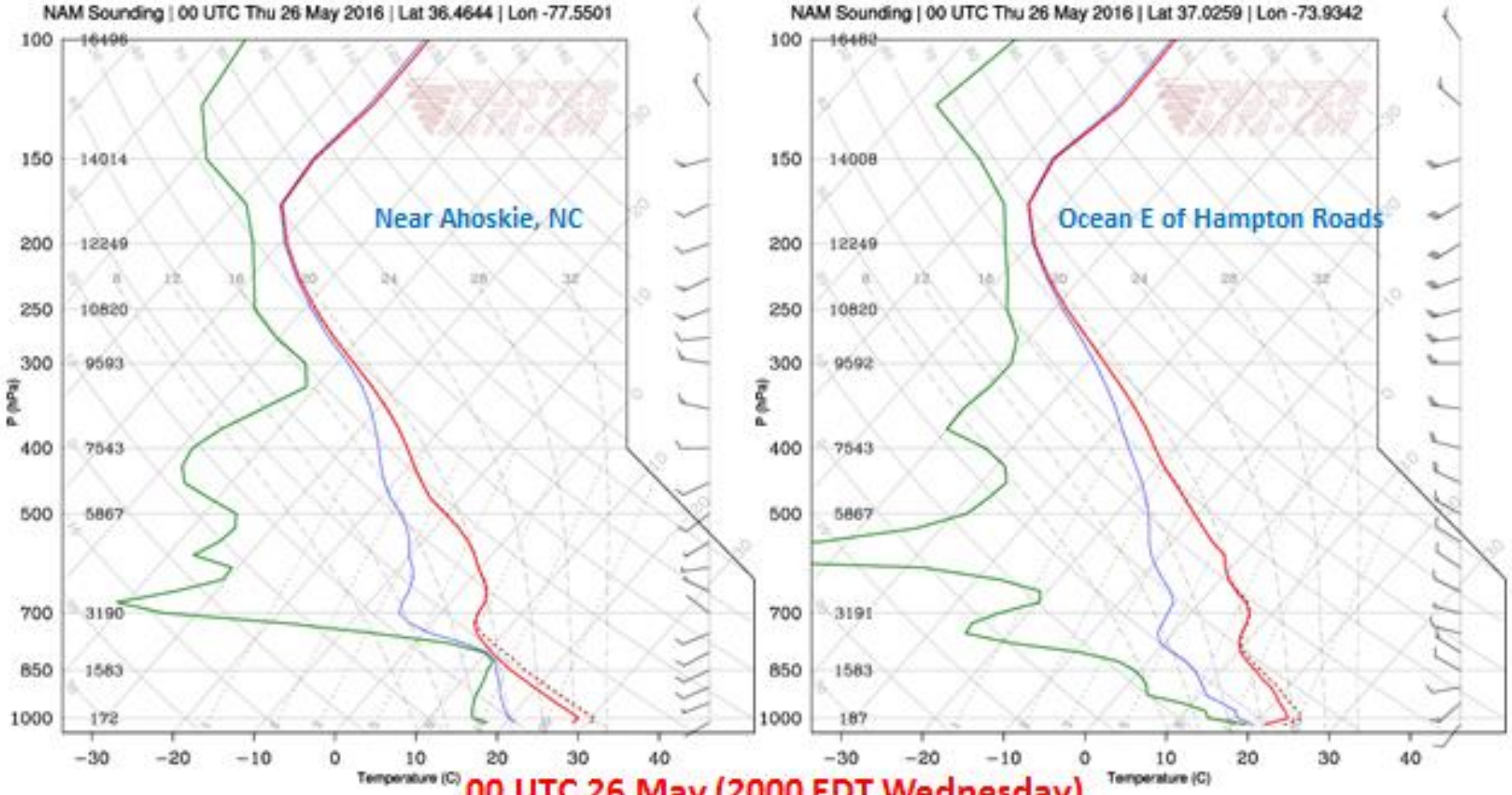

NAM Sounding | 00 UTC Wed 25 May 2016 | Lat 36.4644 | Lon -77.5501
Near Ahoskie, NC
NAM Sounding | 00 UTC Wed 25 May 2016 | Lat 38.0097 | Lon -74.0132
Ocean E of Wallops
P (hPa)
Temperature (C)
00 UTC 25 May (2000 EDT Tuesday)
forecast from 12 UTC 24 May NAM

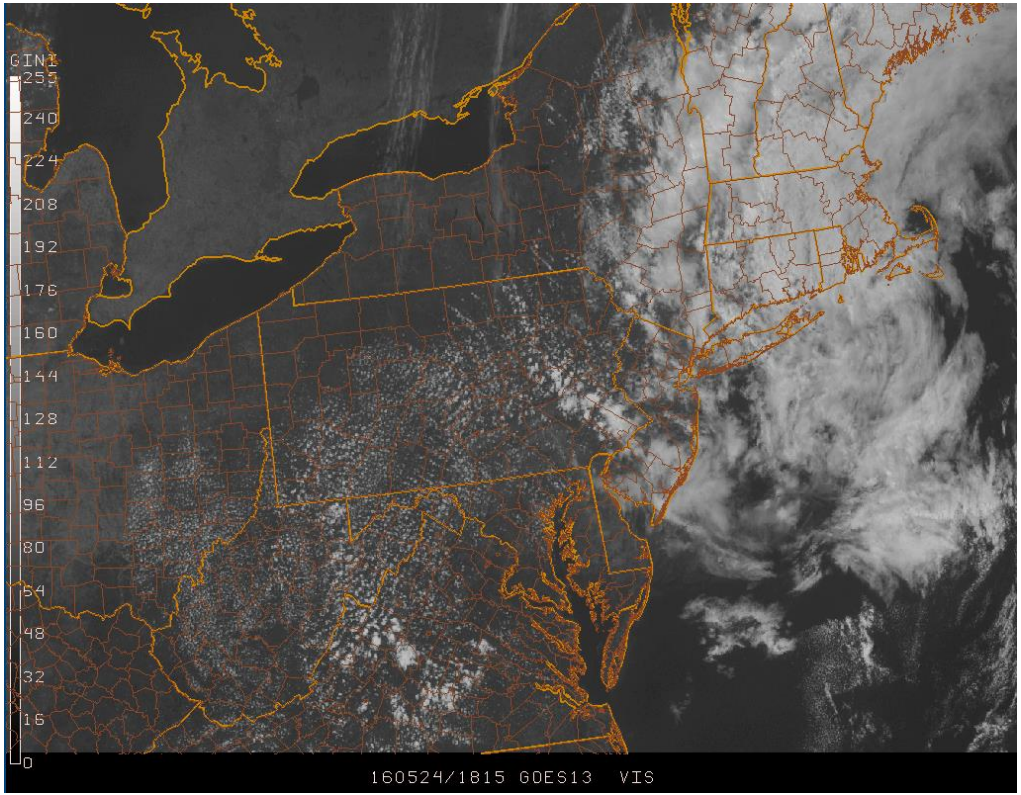

NAM Sounding | 12 UTC Wed 25 May 2016 | Lat 36.4644 | Lon -77.5501
Near Ahoskie, NC
NAM Sounding | 12 UTC Wed 25 May 2016 | Lat 38.0097 | Lon -74.0132
Ocean E of Wallops
P (hPa)
Temperature (C)
12 UTC 25 May (0800 EDT Wednesday)
forecast from 12 UTC 24 May NAM

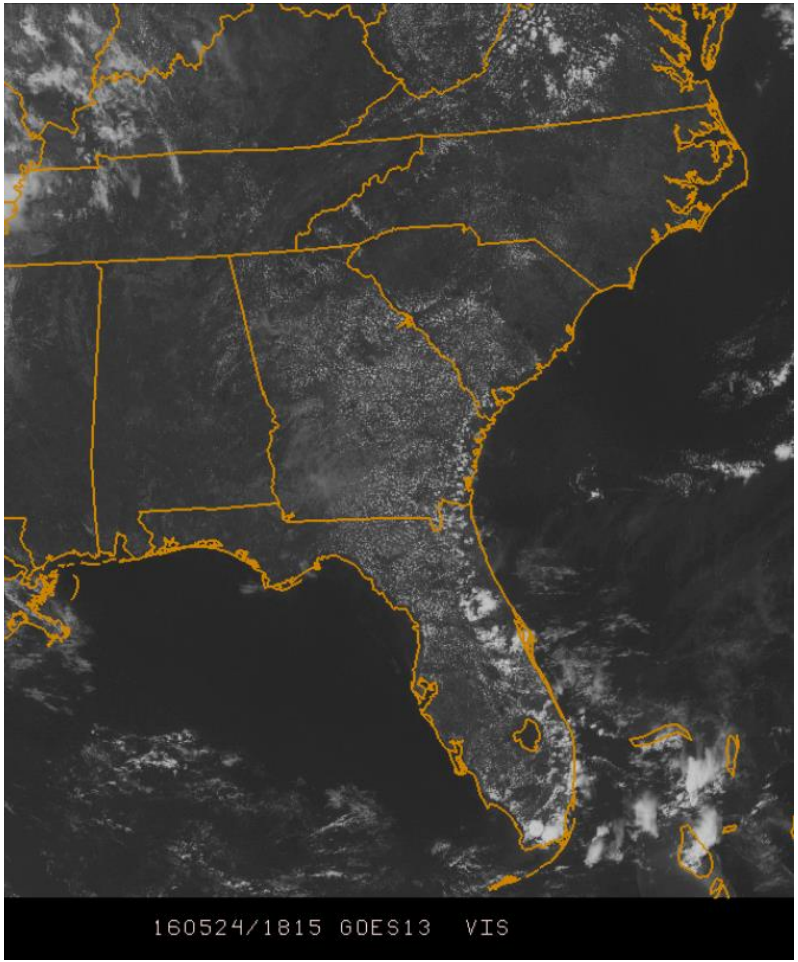

NAM Sounding | 00 UTC Thu 26 May 2016 | Lat 36.4644 | Lon -77.5501
Near Ahoskie, NC
NAM Sounding | 00 UTC Thu 26 May 2016 | Lat 38.0097 | Lon -74.0132
Ocean E of Wallops
P (hPa)
Temperature (C)
00 UTC 26 May (2000 EDT Wednesday)
forecast from 12 UTC 24 May NAM


NAM Sounding | 00 UTC Wed 25 May 2016 | Lat 36.4644 | Lon -77.5501
Near Ahoskie, NC
NAM Sounding | 00 UTC Wed 25 May 2016 | Lat 37.0259 | Lon -73.9342
Ocean E of Hampton Roads
P (hPa)
Temperature (C)
00 UTC 25 May (2000 EDT Tuesday)
forecast from 12 UTC 24 May NAM


NAM Sounding | 12 UTC Wed 25 May 2016 | Lat 36.4644 | Lon -77.5501
Near Ahoskie, NC
NAM Sounding | 12 UTC Wed 25 May 2016 | Lat 37.0259 | Lon -73.9342
Ocean E of Hampton Roads
P (hPa)
Temperature (C)
12 UTC 25 May (0800 EDT Wednesday)
forecast from 12 UTC 24 May NAM

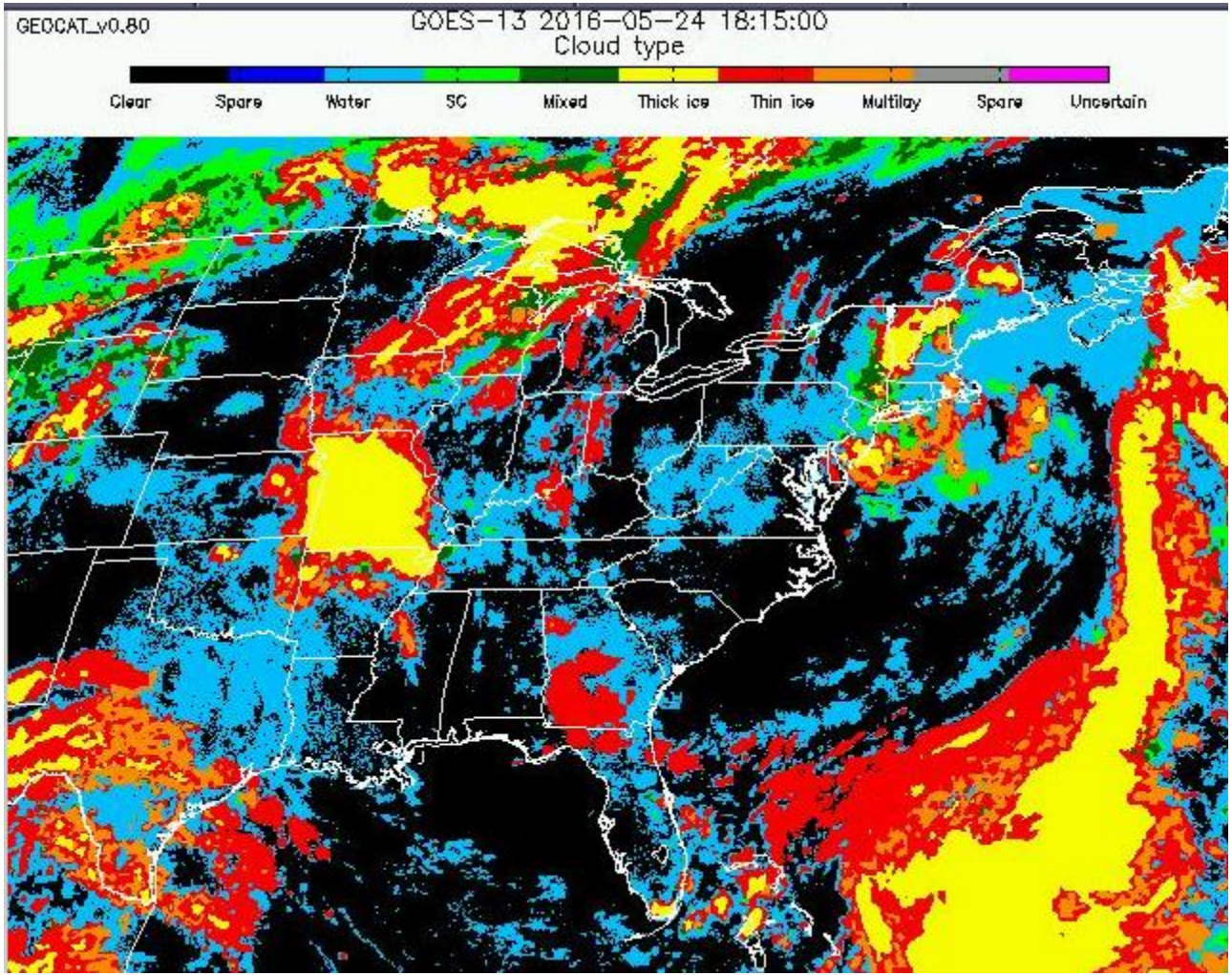

NAM Sounding | 00 UTC Thu 26 May 2016 | Lat 36.4644 | Lon -77.5501
Near Ahoskie, NC
NAM Sounding | 00 UTC Thu 26 May 2016 | Lat 37.0259 | Lon -73.9342
Ocean E of Hampton Roads
P (hPa)
Temperature (C)
00 UTC 26 May (2000 EDT Wednesday)
forecast from 12 UTC 24 May NAM





VERIFICATION: 1815Z
** NOTE CONVECTION OVER SOUTHERN VA

http://mp1.met.psu.edu/~fxg1/SAT_SE/recentvis.html


GEOCAT_v0.80
GOES-13 2016-05-24 18:15:00
Cloud type
Clear
Spare
Water
SC
Mixed
Thick ice
Thin ice
Multilay
Spare
Uncertain